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Since Nov 27 1996, it was maintained by Guy Maor <maor@debian.org>. He rewrote most of it.

Since May 20 2000, it is maintained by Roland Bauerschmidt <rb@debian.org>.

Since March 24 2004, it is maintained by Roland Bauerschmidt <rb@debian.org>, and co-maintained by Marc Haber <mh+debian-packages@zugschluss.de>

Since 23 Oct 2005, it has been maintained by Joerg Hoh <joerg@joerghoh.de>

Since June 2006, it has been maintained by Stephen Gran <sgran@debian.org>

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Apache HTTP Server Test Framework
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This is a library of functions to support regular expressions whose syntax
and semantics are as close as possible to those of the Perl 5 language. See
the file Tech.Notes for some information on the internals.

This module is a wrapper that provides a POSIX API to the underlying PCRE
functions.

Written by: Philip Hazel <ph10@cam.ac.uk>

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 md5.c: NCSA HTTPd code which uses the md5c.c RSA Code

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License: Haines
This imagemap module started as a port of the original imagemap.c written by Rob McCool (11/13/93 robm@ncsa.uiuc.edu). This version includes the mapping algorithms found in version 1.3 of imagemap.c.

Contributors to this code include:

Kevin Hughes, kevinh@pulua.hcc.hawaii.edu

Eric Haines, erich@eye.com
"macmartinized" polygon code copyright 1992 by Eric Haines, erich@eye.com

Randy Terbush, randy@zyzzyva.com
port to Apache module format, "base_uri" and support for relative URLs

James H. Cloos, Jr., cloos@jhcloos.com
Added point datatype, using code in NCSA's version 1.8 imagemap.c program, as distributed with version 1.4.1 of their server.
The point code is originally added by Craig Milo Rogers, Rogers@ISI.Edu

Nathan Kurz, nate@tripod.com
Rewrite/reorganization. New handling of default, base and relative URLs.

New Configuration directives:
- ImapMenu {none, formatted, semiformatted, unformatted}
- ImapDefault {error, nocontent, referer, menu, URL}
- ImapBase {map, referer, URL}

Support for creating non-graphical menu added. (backwards compatible):
- Old: directive URL [x,y ...]
- New: directive URL "Menu text" [x,y ...]
  or: directive URL x,y ... "Menu text"

Map format and menu concept courtesy Joshua Bell, jsbell@acs.ucalgary.ca.

Mark Cox, mark@ukweb.com, Allow relative URLs even when no base specified

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For compliance with Mr Darwin's terms: this has been very significantly modified from the free "file" command.

- all-in-one file for compilation convenience when moving from one version of Apache to the next.
- Memory allocation is done through the Apache API's apr_pool_t structure.
- All functions have had necessary Apache API request or server structures passed to them where necessary to call other Apache API routines. (i.e. usually for logging, files, or memory allocation in itself or a called function.)
- struct magic has been converted from an array to a single-ended linked list because it only grows one record at a time, it's only accessed sequentially, and the Apache API has no equivalent of realloc().
- Functions have been changed to get their parameters from the server configuration instead of globals. (It should be reentrant now but has not been tested in a threaded environment.)
- Places where it used to print results to stdout now saves them in a list where they're used to set the MIME type in the Apache request record.
- Command-line flags have been removed since they will never be used here.
Ian Kluft <ikluft@cisco.com>
Engineering Information Framework
Central Engineering
Cisco Systems, Inc.
San Jose, CA, USA

Initial installation          July/August 1996
Misc bug fixes                May 1997
Submission to Apache Software Foundation    July 1997

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C LALR(1) parser skeleton written by Richard Stallman, by simplifying the original so-called "semantic" parser.

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<link href="./style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" />
<script src="./style/scripts/prettify.min.js" type="text/javascript"></script>
</head>
<body id="manual-page" class="no-sidebar">
<p class="apache">Apache HTTP Server Version 2.4</p>
<div class="up"><a href="./"><img title="<" alt="<" src="./images/feather.png" /></a></div>
<div id="path">
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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
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Michael Campanella (campanella@stevms.enet.dec.com)

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1.4 apache2-data 2.4.25-3+deb9u4

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Now maintained by:

Fred Moyer <fred@redhotpenguin.com>
Philip M. Gollucci <pgollucci@p6m7g8.com>

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 * University of Illinois at Urbana-Champaign
 * 605 E. Springfield, Champaign, IL 61820
 * httpd@ncsa.uiuc.edu
 *
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 *
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   ===============

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Written by Adam Twiss (adam@zeus.co.uk). March 1996
Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
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*/

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1.5 apache2-utils 2.4.25-3+deb9u4

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For the server\util_md5.c component:

/************************************************************************
* NCSA HTTPd Server
* Software Development Group
*************************************************************************/
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  * 605 E. Springfield, Champaign, IL 61820
  * httpd@ncsa.uiuc.edu

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Go support for Protocol Buffers - Google's data interchange format

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## BIRD

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tomb - support for clean goroutine termination in Go.

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Protocol Buffers for Go with Gadgets

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Go support for Protocol Buffers - Google's data interchange format

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1.17 calico-bird 0.3.2

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* /

#define IPV6
#endif

#define CONFIG_AUTO_ROUTES
#define CONFIG_SELF_CONSCIOUS
#define CONFIG_MULTIPLE_TABLES
#define CONFIG_SINGLE_ROUTE

#define CONFIG_SKIP_MC_BIND
#define CONFIG_NO_IFACE_BIND

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Link: sysdep/unix
Link: sysdep/bsd
*/

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#define CONFIG_SINGLE_ROUTE

#define CONFIG_SKIP_MC_BIND
#define CONFIG_NO_IFACE_BIND
#define CONFIG_USE_HDRINCL

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#define IPV6

#define CONFIG_AUTO_ROUTES
#define CONFIG_SELF_CONSCIOUS
#define CONFIG_MULTIPLE_TABLES
#define CONFIG_SINGLE_ROUTE

#define CONFIG_SKIP_MC_BIND
#define CONFIG_NO_IFACE_BIND

/*
Link: sysdep/unix
Link: sysdep/bsd
*/

1.19 calico-birdcl 0.3.2

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*
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*/

#define CONFIG_AUTO_ROUTES
#define CONFIG_SELF_CONSCIOUS
#define CONFIG_MULTIPLE_TABLES
#define CONFIG_SINGLE_ROUTE

#define CONFIG_SKIP_MC_BIND
#define CONFIG_NO_IFACE_BIND
#define CONFIG_USE_HDRINCL

/*
Link: sysdep/unix
Link: sysdep/bsd
*/
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#define CONFIG_SKIP_MC_BIND
#define CONFIG_NO_IFACE_BIND

 /**<
    * Link: sysdep/unix
    * Link: sysdep/bsd
    */

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 */
package org.apache.cassandra.auth;

import java.util.EnumSet;
import java.util.Set;
import com.google.common.collect.ImmutableSet;
import com.google.common.collect.Sets;

/**
 * An enum encapsulating the set of possible permissions that an authenticated user can have on a resource.
 * 
 * IAuthorizer implementations may encode permissions using ordinals, so the Enum order must never change order.
 * Adding new values is ok.
 */
public enum Permission {
    @Deprecated
    READ,
    @Deprecated
    WRITE,

    // schema and role management
    // CREATE, ALTER and DROP permissions granted on an appropriate DataResource are required for
    // CREATE KEYSPACE and CREATE TABLE.
ALTER KEYSPACE, ALTER TABLE, CREATE INDEX and DROP INDEX require ALTER permission on the relevant DataResource.

DROP KEYSPACE and DROP TABLE require DROP permission.

In the context of Role management, these permissions may also be granted on a RoleResource. CREATE is only granted on the root-level role resource, and is required to create new roles.

ALTER & DROP may be granted on either the root-level role resource, giving permissions on all roles, or on specific role-level resources.

CREATE,
ALTER,
DROP,

// data access
SELECT, // required for SELECT on a table
MODIFY, // required for INSERT, UPDATE, DELETE, TRUNCATE on a DataResource.

public static final Set<Permission> ALL = Sets.immutableEnumSet(EnumSet.range(Permission.CREATE, Permission.EXECUTE));
public static final Set<Permission> NONE = ImmutableSet.of();

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===============================================================================

The inverse error function implementation in the Erf class is based on CUDA
code developed by Mike Giles, Oxford-Man Institute of Quantitative Finance,

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The BracketFinder (package org.apache.commons.math3.optimization.univariate)
and PowellOptimizer (package org.apache.commons.math3.optimization.general)
classes are based on the Python code in module "optimize.py" (version 0.5)
developed by Travis E. Oliphant for the SciPy library (http://www.scipy.org/)

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JCTools
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*/

package org.apache.cassandra.auth;

import java.util.EnumSet;
import java.util.Set;
import com.google.common.collect.ImmutableSet;
import com.google.common.collect.Sets;

/**
 * An enum encapsulating the set of possible permissions that an authenticated user can have on a resource.
 *
 * IAuthorizer implementations may encode permissions using ordinals, so the Enum order must never change order.
 * Adding new values is ok.
/

public enum Permission
{
    @Deprecated
    READ,
    @Deprecated
    WRITE,

    // schema and role management
    // CREATE, ALTER and DROP permissions granted on an appropriate DataResource are required for
    // CREATE KEYSPACE and CREATE TABLE.
    // ALTER KEYSPACE, ALTER TABLE, CREATE INDEX and DROP INDEX require ALTER permission on the
    // relevant DataResource.
    // DROP KEYSPACE and DROP TABLE require DROP permission.
    //
    // In the context of Role management, these permissions may also be granted on a RoleResource.
    // CREATE is only granted on the root-level role resource, and is required to create new roles.
    // ALTER & DROP may be granted on either the root-level role resource, giving permissions on
    // all roles, or on specific role-level resources.
    CREATE,
    ALTER,
    DROP,

    // data access
    SELECT, // required for SELECT on a table
    MODIFY, // required for INSERT, UPDATE, DELETE, TRUNCATE on a DataResource.

    // permission management
    AUTHORIZE, // required for GRANT and REVOKE of permissions or roles.

    DESCRIBE, // required on the root-level RoleResource to list all Roles

    // UDF permissions
    EXECUTE; // required to invoke any user defined function or aggregate

    public static final Set<Permission> ALL =
        Sets.immutableEnumSet(Permission.CREATIVE, Permission.EXECUTE));
    public static final Set<Permission> NONE = ImmutableSet.of();
}

<component name="CopyrightManager">
    <settings default="Apache License 2.0" />
</component>
<component name="CopyrightManager">
    <copyright>
        <option name="myName" value="Apache License 2.0" />
        <option name="notice" value="Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements. See the NOTICE file distributed with this work for additional"
1.27 cassandra-tools 3.11.2

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import java.util.EnumSet;
import java.util.Set;
import com.google.common.collect.ImmutableSet;
import com.google.common.collect.Sets;

/**
 * An enum encapsulating the set of possible permissions that an authenticated user can have on a resource.
 *
 * IAuthorizer implementations may encode permissions using ordinals, so the Enum order must never change order.
 * Adding new values is ok.
 */

public enum Permission {
    @Deprecated
    READ,
    @Deprecated
    WRITE,

    // schema and role management
    // CREATE, ALTER and DROP permissions granted on an appropriate DataResource are required for
    // CREATE KEYSPACE and CREATE TABLE.
}
public static final Set<Permission> ALL =
    Sets.immutableEnumSet(EnumSet.range(Permission.CREATE, Permission.EXECUTE));
public static final Set<Permission> NONE = ImmutableSet.of();

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===============================================================================

The inverse error function implementation in the Erf class is based on CUDA
code developed by Mike Giles, Oxford-Man Institute of Quantitative Finance,

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The BracketFinder (package org.apache.commons.math3.optimization.univariate)
and PowellOptimizer (package org.apache.commons.math3.optimization.general)
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*/
package org.apache.cassandra.auth;

import java.util.EnumSet;
import java.util.Set;
import com.google.common.collect.ImmutableSet;
import com.google.common.collect.Sets;

/**< *
 * An enum encapsulating the set of possible permissions that an authenticated user can have on a resource.
 *
 * IAuthorizer implementations may encode permissions using ordinals, so the Enum order must never change order.
 * Adding new values is ok.
 */
public enum Permission {
    @Deprecated
    READ,
    @Deprecated
    WRITE,
// schema and role management
// CREATE, ALTER and DROP permissions granted on an appropriate DataResource are required for
// CREATE KEYSPACE and CREATE TABLE.
// ALTER KEYSPACE, ALTER TABLE, CREATE INDEX and DROP INDEX require ALTER permission on the
// relevant DataResource.
// DROP KEYSPACE and DROP TABLE require DROP permission.
//
// In the context of Role management, these permissions may also be granted on a RoleResource.
// CREATE is only granted on the root-level role resource, and is required to create new roles.
// ALTER & DROP may be granted on either the root-level role resource, giving permissions on
// all roles, or on specific role-level resources.
CREATE,
ALTER,
DROP,

// data access
SELECT, // required for SELECT on a table
MODIFY, // required for INSERT, UPDATE, DELETE, TRUNCATE on a DataResource.

// permission management
AUTHORIZE, // required for GRANT and REVOKE of permissions or roles.

DESCRIBE, // required on the root-level RoleResource to list all Roles

// UDF permissions
EXECUTE; // required to invoke any user defined function or aggregate

public static final Set<Permission> ALL =
Sets.immutableEnumSet(EnumSet.range(Permission.CREATE, Permission.EXECUTE));
public static final Set<Permission> NONE = ImmutableSet.of();
}

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/*
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package org.apache.cassandra.auth;

import java.util.EnumSet;
import java.util.Set;
import com.google.common.collect.ImmutableSet;
import com.google.common.collect.Sets;

/**
 * An enum encapsulating the set of possible permissions that an authenticated user can have on a resource.
 * 
 * IAuthorizer implementations may encode permissions using ordinals, so the Enum order must never change order.
 * Adding new values is ok.
 */
public enum Permission {
    @Deprecated
    READ,
    @Deprecated
    WRITE,
    // schema and role management
    // CREATE, ALTER and DROP permissions granted on an appropriate DataResource are required for
    // CREATE KEYSPACE and CREATE TABLE.
    // ALTER KEYSPACE, ALTER TABLE, CREATE INDEX and DROP INDEX require ALTER permission on the
    // relevant DataResource.
    // DROP KEYSPEACE and DROP TABLE require DROP permission.
    // In the context of Role management, these permissions may also be granted on a RoleResource.
    // CREATE is only granted on the root-level role resource, and is required to create new roles.
    // ALTER & DROP may be granted on either the root-level role resource, giving permissions on
    // all roles, or on specific role-level resources.
    CREATE,
    }
ALTER,
DROP,

// data access
SELECT, // required for SELECT on a table
MODIFY, // required for INSERT, UPDATE, DELETE, TRUNCATE on a DataResource.

// permission management
AUTHORIZE, // required for GRANT and REVOKE of permissions or roles.

DESCRIBE, // required on the root-level RoleResource to list all Roles

// UDF permissions
EXECUTE; // required to invoke any user defined function or aggregate

```java
public static final Set<Permission> ALL =
    Sets.immutableEnumSet(EnumSet.range(Permission.CREATE, Permission.EXECUTE));

public static final Set<Permission> NONE = ImmutableSet.of();
```

This package was debianized by Eric Evans <eevans@apache.org> on Sun, 26 Jul 2009 15:12:10 +0000

Upstream Author: Cassandra Developers <cassandra-dev@incubator.apache.org>

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Alternative Disruptor backed thrift server from https://github.com/xedin/disruptor_thrift_server
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Protocol Buffers for Go with Gadgets

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Go support for Protocol Buffers - Google's data interchange format

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    Entity

    // no documentation yet
    Account *Account `json:"account,omitempty" xmlrpc:"account,omitempty"

    // no documentation yet
    AccountId *int `json:"accountId,omitempty" xmlrpc:"accountId,omitempty"

    // no documentation yet
    EnabledFlag *bool `json:"enabledFlag,omitempty" xmlrpc:"enabledFlag,omitempty"

    // no documentation yet
    Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"
// no documentation yet
Type *Legal_RegulatedWorkload_Type `json:"type,omitempty" xmlrpc:"type,omitempty"

// no documentation yet
WorkloadTypeId *int `json:"workloadTypeId,omitempty" xmlrpc:"workloadTypeId,omitempty"
}

// no documentation yet
type Legal_RegulatedWorkload_Type struct {
    Entity

    // no documentation yet
    Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"

    // no documentation yet
    KeyName *string `json:"keyName,omitempty" xmlrpc:"keyName,omitempty"

    // no documentation yet
    Name *string `json:"name,omitempty" xmlrpc:"name,omitempty"
}

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1.36 curl 7.52.1-5+deb9u7

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```
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## BoringSSL

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## libressl

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## c-ares
(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

## zlib

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

## MIT Kerberos

(May be used for GSS support) MIT licensed, that shouldn't collide with any other parts.

## Heimdal

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## OpenLDAP

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

## libssh2

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

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1.38 dbus 1.10.26-0+deb9u1

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1.39 debconf 1.5.61

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1.41 debianutils 4.8.1.1

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1.42 diffutils 1:3.5-3

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GNU `sdiff' was written by Thomas Lord. GNU `cmp' was written by Torbjorn Granlund and David MacKenzie.

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#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

-------------------------------------------------------------
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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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Go support for Protocol Buffers - Google's data interchange format

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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Gocheck - A rich testing framework for Go

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Gocheck - A rich testing framework for Go

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Go support for Protocol Buffers - Google’s data interchange format

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Protocol Buffers for Go with Gadgets

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Extensions for Protocol Buffers to create more go like structures.

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http://github.com/gogo/protobuf/gogoproto

Go support for Protocol Buffers - Google's data interchange format

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Gocheck - A rich testing framework for Go

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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Gocheck - A rich testing framework for Go

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Theodore Ts'o
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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c

--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
/*
*/
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes

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** library. This does NOT imply that all of Samba is released
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)

$(BSD_LIB): $(OBJ)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJ))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"

Open Source Used In Open Source Used In Managed Services Accelerator 3.5.1
1920
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall:\n$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
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Gadi Oxman, August 1995

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Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

It is part of the main e2fsprogs distribution, which can be found at:

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1.52 e2fsprogs 1.43.4-2

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Theodore Ts'o
23-June-2007

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d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371

--- tdbsa.org/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Unix SMB/CIFS implementation.

trivial database library - standalone version

trivial database library - private includes

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# This is a Makefile stub which handles the creation of BSD shared libraries.

# In order to use this stub, the following makefile variables must be defined.

# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)

all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image::$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../*.$(BSD_LIB)

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Gadi Oxman, August 1995

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Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

It is part of the main e2fsprogs distribution, which can be found at:

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## 1.54 elasticdump 3.3.19

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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***The art of simplicity is a puzzle of complexity.***

## Overview ##

[YAML](http://yaml.org) is a data serialization format designed for human readability and interaction with scripting languages.

SnakeYAML is a YAML processor for the Java Virtual Machine.

## SnakeYAML features ##

* a **complete** [YAML 1.1 processor](http://yaml.org/spec/1.1/current.html). In particular, SnakeYAML can parse all examples from the specification.
* Unicode support including UTF-8/UTF-16 input/output.
* high-level API for serializing and deserializing native Java objects.
* support for all types from the [YAML types repository](http://yaml.org/type/index.html).
* relatively sensible error messages.

## Info ##

* [Changes](https://bitbucket.org/asomov/snakeyaml/wiki/Changes)
* [Documentation](https://bitbucket.org/asomov/snakeyaml/wiki/Documentation)

## Contribute ##

* Mercurial DVCS is used to dance with the [source code](https://bitbucket.org/asomov/snakeyaml/src).
* If you find a bug in SnakeYAML, please file a bug
You may discuss SnakeYAML at [the mailing list](http://groups.google.com/group/snakeyaml-core).

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### License Settings

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`xpack.license.self_generated.type`:
Set to `basic` (default) to enable basic {xpack} features. +
---

If set to `trial`, the self-generated license gives access only to all the features of a x-pack for 30 days. You can later downgrade the cluster to a basic license if needed.

---

### Delete License API

This API enables you to delete licensing information.

---

When your license expires, {xpack} operates in a degraded mode. For more information, see [License Expiration].
==== Authorization

You must have `manage` cluster privileges to use this API.
For more information, see {xpack-ref}/security-privileges.html[Security Privileges].

==== Examples

The following example queries the info API:

[source,js]
------------------------------------------------------------
DELETE _xpack/license
------------------------------------------------------------

// CONSOLE
// TEST[skip:license testing issues]

When the license is successfully deleted, the API returns the following response:
[source,js]
------------------------------------------------------------
{
  "acknowledged": true
}
------------------------------------------------------------

// NOTCONSOLE
[role="xpac"]
[testenv="basic"]
[[get-license]]
=== Get License API

This API enables you to retrieve licensing information.

==== Request

`GET /_xpack/license`

==== Description

This API returns information about the type of license, when it was issued, and when it expires, for example.

For more information about the different types of licenses, see https://www.elastic.co/subscriptions.
Query Parameters

`local`:
(bolean) Specifies whether to retrieve local information. The default value is `false`, which means the information is retrieved from the master node.

Authorization

You must have `monitor` cluster privileges to use this API. For more information, see {xpack-ref}/security-privileges.html[Security Privileges].

Examples

The following example provides information about a basic license:

[source,js]
-----------------------------
GET _xpack/license
-----------------------------

// CONSOLE

[source,js]
-----------------------------
{
  "license": {
    "status": "active",
    "uid": "cbff45e7-c553-41f7-ae4f-9205eabd80xx",
    "type": "basic",
    "issue_date": "2018-02-22T23:12:05.550Z",
    "issue_date_in_millis": 1519341125550,
    "max_nodes": 1000,
    "issued_to": "test",
    "issuer": "elasticsearch",
    "start_date_in_millis": -1
  }
}
-----------------------------

// TESTRESPONSE["cbff45e7-c553-41f7-ae4f-9205eabd80xx"/$body.license.uid/]
// TESTRESPONSE["basic"/$body.license.type/]
// TESTRESPONSE["2018-02-22T23:12:05.550Z"/$body.license.issue_date/]
This API enables you to update your license.

--- Request

`PUT _xpack/license`

--- Description

You can update your license at runtime without shutting down your nodes. License updates take effect immediately. If the license you are installing does not support all of the features that were available with your previous license, however, you are notified in the response. You must then re-submit the API request with the `acknowledge` parameter set to `true`.

For more information about the different types of licenses, see https://www.elastic.co/subscriptions.

--- Query Parameters

`acknowledge`::

(boolean) Specifies whether you acknowledge the license changes. The default value is `false`.

--- Request Body

`licenses`::

(array) A sequence of one or more JSON documents containing the license information.

--- Authorization

If `{security}` is enabled, you need `manage` cluster privileges to install the license.
If security is enabled and you are installing a gold or platinum license, you must enable TLS on the transport networking layer before you install the license. See <<configuring-tls>>.

Examples

The following example updates to a basic license:

[source,js]

------------------------------------------------------------
POST /_xpack/license
{
  "licenses": [
  {
    "uid": "893361dc-9749-4997-93cb-802e3d7fa4xx",
    "type": "basic",
    "issue_date_in_millis": 1411948800000,
    "expiry_date_in_millis": 1914278399999,
    "max_nodes": 1,
    "issued_to": "issuedTo",
    "issuer": "issuer",
    "signature": "xx"
  }
  ]
}

------------------------------------------------------------

// CONSOLE
// TEST[skip:license testing issues]

NOTE: These values are invalid; you must substitute the appropriate content from your license file.

You can alternatively use a `curl` command, for example:

[source,js]
[source,shell]

curl -XPUT -u <user> 'http://<host>:<port>/_xpack/license' -H "Content-Type: application/json" -d @license.json

// NOTCONSOLE

On Windows machine, use the following command:

[source,shell]

gc .\license.json | Invoke-WebRequest -uri http://<host>:<port>/_xpack/license -Credential elastic -Method Put -
In these examples,

* `<user>` is a user ID with the appropriate authority.
* `<host>` is the hostname of the {es} node (`localhost` if executing locally)
* `<port>` is the http port (defaults to `9200`)
* `license.json` is the license JSON file

NOTE: If your {es} node has SSL enabled on the HTTP interface, you must start your URL with `https://`

If you previously had a license with more features than the basic license, you receive the following response:

```
{
  "acknowledged": false,
  "license_status": "valid",
  "acknowledge": {
    "message": "This license update requires acknowledgement. To acknowledge the license, please read the following messages and update the license again, this time with the "acknowledge=true" parameter."",
    "watcher": [],
    "logstash": [],
    "logstash will no longer poll for centrally-managed pipelines"
  }
}
```

To complete the update, you must re-submit the API request and set the `acknowledge` parameter to `true`. For example:

```
POST _xpack/license?acknowledge=true
{
  "licenses": [
    {
      "uid": "893361dc-9749-4997-93cb-802e3d7fa4xx",
```
Alternatively:

[source,sh]

```
curl -X PUT -u elastic 'http://<host>:<port>/_xpack/license?acknowledge=true' -H "Content-Type: application/json" -d @license.json
```

// NOTCONSOLE

For more information about the features that are disabled when you downgrade your license, see {xpack-ref}/license-expiration.html[License Expiration].

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\texttt{analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java},  
\texttt{analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java},  
\texttt{analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java},  
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The code for the t-digest was originally authored by Ted Dunning

A number of small but very helpful changes have been contributed by Adrien Grand (https://github.com/jpountz)

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import org.elasticsearch.xpack.upgrade.Upgrade;
import org.elasticsearch.xpack.watcher.Watcher;
import java.nio.file.Path;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collection;
import java.util.Collections;
import java.util.List;
import java.util.function.Function;
import static org.elasticsearch.test.hamcrest.ElasticsearchAssertions.assertAcked;
import static org.hamcrest.Matchers.anyOf;
import static org.hamcrest.Matchers.containsString;
import static org.hamcrest.Matchers.equalTo;

@ClusterScope(scope = Scope.TEST, transportClientRatio = 0, numClientNodes = 1, numDataNodes = 2)
public abstract class TribeTransportTestCase extends ESIntegTestCase {

import static org.elasticsearch.test.hamcrest.ElasticsearchAssertions.assertAcked;
import static org.hamcrest.Matchers.anyOf;
import static org.hamcrest.Matchers.containsString;
import static org.hamcrest.Matchers.equalTo;

@ClusterScope(scope = Scope.TEST, transportClientRatio = 0, numClientNodes = 1, numDataNodes = 2)
public abstract class TribeTransportTestCase extends ESIntegTestCase {

protected List<String> enabledFeatures() {
    return Collections.emptyList();
}

@Override
protected final Settings nodeSettings(int nodeOrdinal) {
    final Settings.Builder builder = Settings.builder()
        .put(NetworkModule.HTTP_ENABLED.getKey(), false)
        .put("transport.type", getTestTransportType());
    List<String> enabledFeatures = enabledFeatures();
    builder.put(XPackSettings.SECURITY_ENABLED.getKey(),
        enabledFeatures.contains(XPackField.SECURITY));
    builder.put(XPackSettings.MONITORING_ENABLED.getKey(),
        enabledFeatures.contains(XPackField.MONITORING));
    builder.put(XPackSettings.WATCHER_ENABLED.getKey(),
        enabledFeatures.contains(XPackField.WATCHER));
    builder.put(XPackSettings.GRAPH_ENABLED.getKey(), enabledFeatures.contains(XPackField.GRAPH));
    builder.put(XPackSettings.MACHINE_LEARNING_ENABLED.getKey(),
        enabledFeatures.contains(XPackField.MACHINE_LEARNING));
    builder.put(MachineLearningField.AUTODETECT_PROCESS.getKey(), false);
    return builder.build();
}

@Override
protected boolean ignoreExternalCluster() {
    return true;
}

@Override
protected boolean addTestZenDiscovery() {
    return false;
}

public static class TribeAwareTestZenDiscoveryPlugin extends TestZenDiscovery.TestPlugin {
    public TribeAwareTestZenDiscoveryPlugin(Settings settings) {
        super(settings);
    }

    @Override
    public Settings additionalSettings() {
        if (settings.getGroups("tribe", true).isEmpty()) {
            return super.additionalSettings();
        } else {
            return Settings.EMPTY;
        }
    }
}
public static class MockTribePlugin extends TribePlugin {

    public MockTribePlugin(Settings settings) {
        super(settings);
    }

    protected Function<Settings, Node> nodeBuilder(Path configPath) {
        return settings -> new MockNode(new Environment(settings, configPath), internalCluster().getPlugins());
    }

    @Override
    protected Collection<Class<? extends Plugin>> nodePlugins() {
        ArrayList<Class<? extends Plugin>> plugins = new ArrayList<>();
        plugins.add(MockTribePlugin.class);
        plugins.add(TribeAwareTestZenDiscoveryPlugin.class);
        plugins.add(CompositeTestingXPackPlugin.class);
        plugins.add(CommonAnalysisPlugin.class);
        return plugins;
    }

    @Override
    protected final Collection<Class<? extends Plugin>> transportClientPlugins() {
        ArrayList<Class<? extends Plugin>> plugins = new ArrayList<>();
        plugins.add(MockTribePlugin.class);
        plugins.add(TribeAwareTestZenDiscoveryPlugin.class);
        plugins.add(XPackClientPlugin.class);
        plugins.add(CommonAnalysisPlugin.class);
        return plugins;
    }

    public void testTribeSetup() throws Exception {
        NodeConfigurationSource nodeConfigurationSource = new NodeConfigurationSource() {
            @Override
            public Settings nodeSettings(int nodeOrdinal) {
                return TribeTransportTestCase.this.nodeSettings(nodeOrdinal);
            }

            @Override
            public Path nodeConfigPath(int nodeOrdinal) {
                return null;
            }

            @Override
            public Collection<Class<? extends Plugin>> nodePlugins() {
                return TribeTransportTestCase.this.nodePlugins();
            }
        };
    }
}
@Override
public Settings transportClientSettings() {
    return TribeTransportTestCase.this.transportClientSettings();
}

@Override
public Collection<Class<? extends Plugin>> transportClientPlugins() {
    return TribeTransportTestCase.this.transportClientPlugins();
}
}

final InternalTestCluster cluster2 = new InternalTestCluster(
    randomLong(), createTempDir(), true, true, 2, 2,
    UUIDs.randomBase64UUID(random()), nodeConfigurationSource, 1, false, "tribe_node2",
    getMockPlugins(), getClientWrapper());

cluster2.beforeTest(random(), 0.0);

logger.info("create 2 indices, test1 on t1, and test2 on t2");
assertAcked(internalCluster().client().admin().indices().prepareCreate("test1").get());
assertAcked(cluster2.client().admin().indices().prepareCreate("test2").get());
ensureYellow(internalCluster());
ensureYellow(cluster2);

// Map<String,String> asMap = internalCluster().getDefaultSettings().getAsMap();
Settings.Builder tribe1Defaults = Settings.builder();
Settings.Builder tribe2Defaults = Settings.builder();
internalCluster().getDefaultSettings().keySet().forEach(k -> {
    if (k.startsWith("path.") == false) {
        tribe1Defaults.copy(k, internalCluster().getDefaultSettings());
        tribe2Defaults.copy(k, internalCluster().getDefaultSettings());
    }
});
tribe1Defaults.normalizePrefix("tribe.t1.");
tribe2Defaults.normalizePrefix("tribe.t2.");
// give each tribe it's unicast hosts to connect to
tribe1Defaults.putList("tribe.t1." +
SettingsBasedHostsProvider.DISCOVERY_ZEN_PING_UNICAST_HOSTS_SETTING.getKey(),
getcUnicastHosts(internalCluster().client()));
tribe1Defaults.putList("tribe.t2." +
SettingsBasedHostsProvider.DISCOVERY_ZEN_PING_UNICAST_HOSTS_SETTING.getKey(),
getcUnicastHosts(cluster2.client()));

Settings merged = Settings.builder()
    .put("tribe.t1.cluster.name", internalCluster().getClusterName())
    .put("tribe.t2.cluster.name", cluster2.getClusterName())
    .put("tribe.t1.transport.tcp.port", 0)
    .put("tribe.t2.transport.tcp.port", 0)
    .put("tribe.t1.transport.type", getTestTransportType())
final List<Class<? extends Plugin>> mockPlugins = Arrays.asList(MockTribePlugin.class,
TribeAwareTestZenDiscoveryPlugin.class,
getTestTransportPlugin(), Deprecation.class, Graph.class, Logstash.class, MachineLearning.class,
Monitoring.class,
Security.class, Upgrade.class, Watcher.class, XPackPlugin.class);
final Node tribeNode = new MockNode(merged, mockPlugins).start();
Client tribeClient = tribeNode.client();

logger.info("wait till tribe has the same nodes as the 2 clusters");
assertBusy(() -> {
  DiscoveryNodes tribeNodes = tribeNode.client().admin().cluster().prepareState().get().getNodes();
  assertThat(countDataNodesForTribe("t1", tribeNodes),
          equalTo(internalCluster().client().admin().cluster().prepareState().get().getNodes().getDataNodes().size()));
  assertThat(countDataNodesForTribe("t2", tribeNodes),
          equalTo(cluster2.client().admin().cluster().prepareState().get().getNodes().getDataNodes().size()));
});

logger.info(" --> verify transport actions for tribe node");
verifyActionOnTribeNode(tribeClient);
logger.info(" --> verify transport actions for data node");
verifyActionOnDataNode(randomBoolean() ? internalCluster() : cluster2).dataNodeClient());
logger.info(" --> verify transport actions for master node");
verifyActionOnMasterNode(randomBoolean() ? internalCluster() : cluster2).masterClient());
logger.info(" --> verify transport actions for client node");
verifyActionOnClientId(randomBoolean() ? internalCluster() : cluster2).coordOnlyNodeClient());
try {
cluster2.wipe(Collections.<String>emptySet());
} finally {
    cluster2.afterTest();
}

tribeNode.close();
cluster2.close();

/**
 * Verify transport action behaviour on client node
 */
protected abstract void verifyActionOnClientNode(Client client) throws Exception;

/**
 * Verify transport action behaviour on master node
 */
protected abstract void verifyActionOnMasterNode(Client masterClient) throws Exception;

/**
 * Verify transport action behaviour on data node
 */
protected abstract void verifyActionOnDataNode(Client dataNodeClient) throws Exception;

/**
 * Verify transport action behaviour on tribe node
 */
protected abstract void verifyActionOnTribeNode(Client tribeClient) throws Exception;

protected void failAction(Client client, Action action) {
    try {
        client.execute(action, action.newRequestBuilder(client).request());
        fail("expected ": + action.name() + ": to fail");
    } catch (IllegalStateException e) {
        assertThat(e.getMessage(), containsString("failed to find action"));
    }
}

private void ensureYellow(TestCluster testCluster) {
    ClusterHealthResponse actionGet = testCluster.client().admin().cluster()
        .health(Requests.clusterHealthRequest().waitForYellowStatus()
        .waitForEvents(Priority.LANGUID).waitForNoRelocatingShards(true)).actionGet();
    if (actionGet.isTimedOut()) {
        logger.info("ensureGreen timed out, cluster state:\n\n", testCluster.client().admin().cluster()
        .prepareState().get().getState(),
        testCluster.client().admin().cluster().preparePendingClusterTasks().get());
        assertThat("timed out waiting for yellow state", actionGet.isTimedOut(), equalTo(false));
    }
    assertThat(actionGet.getStatus(), anyOf(equalTo(ClusterHealthStatus.YELLOW),
        containsString("failed to find action")));
private int countDataNodesForTribe(String tribeName, DiscoveryNodes nodes) {
    int count = 0;
    for (DiscoveryNode node : nodes) {
        if (!node.isDataNode()) {
            continue;
        }
        if (tribeName.equals(node.getAttributes().get("tribe.name"))) {
            count++;
        }
    }
    return count;
}

private static String[] getUnicastHosts(Client client) {
    ArrayList<String> unicastHosts = new ArrayList<>();
    NodesInfoResponse nodeInfos = client.admin().cluster().prepareNodesInfo().clear().setTransport(true).get();
    for (NodeInfo info : nodeInfos.getNodes()) {
        TransportAddress address = info.getTransport().getAddress().publishAddress();
        unicastHosts.add(address.getAddress() + ":" + address.getPort());
    }
    return unicastHosts.toArray(new String[unicastHosts.size()]);
}

import org.elasticsearch.client.Client;
import org.elasticsearch.common.unit.TimeValue;
import static org.elasticsearch.license.TestUtils.generateSignedLicense;

public class LicenseTribeTests extends TribeTransportTestCase {

    @Override
    protected void verifyActionOnClientNode(Client client) throws Exception {
        assertLicenseTransportActionsWorks(client);
    }

    @Override
    protected void verifyActionOnMasterNode(Client masterClient) throws Exception {
    
}
package org.elasticsearch.xpack.monitoring;

import org.elasticsearch.xpack.core.XPackSettings;
import java.nio.file.Path;
import java.util.ArrayList;
import java.util.Collection;
import java.util.function.Function;

import org.elasticsearch.action.admin.cluster.node.info.NodeInfo;
import org.elasticsearch.action.admin.cluster.node.info.NodesInfoResponse;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.env.Environment;
import org.elasticsearch.node.MockNode;
import org.elasticsearch.node.Node;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.plugins.PluginInfo;
import org.elasticsearch.test.ESIntegTestCase.ClusterScope;
import org.elasticsearch.test.discovery.TestZenDiscovery;
import org.elasticsearch.tribe.TribePlugin;
import org.elasticsearch.xpack.core.xpack.core.XPackSettings;
import org.elasticsearch.xpack.monitoring.test.MonitoringIntegTestCase;

import java.nio.file.Path;
import java.util.ArrayList;
import java.util.Collection;
import java.util.function.Function;

assertLicenseTransportActionsWorks(masterClient);
}

@Override
protected void verifyActionOnDataNode(Client dataNodeClient) throws Exception {
    assertLicenseTransportActionsWorks(dataNodeClient);
}

private static void assertLicenseTransportActionsWorks(Client client) throws Exception {
    client.execute(GetLicenseAction.INSTANCE, new GetLicenseRequest()).get();
    client.execute(PutLicenseAction.INSTANCE, new PutLicenseRequest()
            .license(generateSignedLicense(TimeValue.timeValueHours(1))));
    client.execute(DeleteLicenseAction.INSTANCE, new DeleteLicenseRequest());
}

@Override
protected void verifyActionOnTribeNode(Client tribeClient) throws Exception {
    // The get licence action should work, but everything else should fail
    tribeClient.execute(GetLicenseAction.INSTANCE, new GetLicenseRequest()).get();
    failAction(tribeClient, PutLicenseAction.INSTANCE);
    failAction(tribeClient, DeleteLicenseAction.INSTANCE);
}

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 */

import org.elasticsearch.action.admin.cluster.node.info.NodeInfo;
import org.elasticsearch.action.admin.cluster.node.info.NodesInfoResponse;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.env.Environment;
import org.elasticsearch.node.MockNode;
import org.elasticsearch.node.Node;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.plugins.PluginInfo;
import org.elasticsearch.test.ESIntegTestCase.ClusterScope;
import org.elasticsearch.test.discovery.TestZenDiscovery;
import org.elasticsearch.tribe.TribePlugin;
import org.elasticsearch.xpack.core.xpack.core.XPackSettings;
import org.elasticsearch.xpack.monitoring.test.MonitoringIntegTestCase;

import java.nio.file.Path;
import java.util.ArrayList;
import java.util.Collection;
import java.util.function.Function;
import static org.elasticsearch.test.ESIntegTestCase.Scope.TEST;
import static org.hamcrest.Matchers.equalTo;

@ClusterScope(scope = TEST, transportClientRatio = 0, numClientNodes = 0, numDataNodes = 0)
public class MonitoringPluginTests extends MonitoringIntegTestCase {

    public MonitoringPluginTests() throws Exception {
        super();
    }

    @Override
    protected void startMonitoringService() {
        // do nothing as monitoring is sometime unbound
    }

    @Override
    protected void stopMonitoringService() {
        // do nothing as monitoring is sometime unbound
    }

    @Override
    protected boolean addTestZenDiscovery() {
        return false;
    }

    public static class TribeAwareTestZenDiscoveryPlugin extends TestZenDiscovery.TestPlugin {

        public TribeAwareTestZenDiscoveryPlugin(Settings settings) {
            super(settings);
        }

        @Override
        public Settings additionalSettings() {
            if (settings.getGroups("tribe", true).isEmpty()) {
                return super.additionalSettings();
            } else {
                return Settings.EMPTY;
            }
        }
    }

    public static class MockTribePlugin extends TribePlugin {

        public MockTribePlugin(Settings settings) {
            super(settings);
        }
    }
}
protected Function<Settings, Node> nodeBuilder(Path configPath) {
    return settings -> new MockNode(new Environment(settings, configPath), internalCluster().getPlugins());
}

@Override
protected Collection<Class<? extends Plugin>> nodePlugins() {
    ArrayList<Class<? extends Plugin>> plugins = new ArrayList<>(super.nodePlugins());
    plugins.add(MockTribePlugin.class);
    plugins.add(TribeAwareTestZenDiscoveryPlugin.class);
    return plugins;
}

@Override
protected Settings nodeSettings(int nodeOrdinal) {
    return Settings.builder()
        .put(super.nodeSettings(nodeOrdinal))
        .put(MonitoringService.INTERVAL.getKey(), "-1")
        .put(XPackSettings.SECURITY_ENABLED.getKey(), false)
        .put(XPackSettings.WATCHER_ENABLED.getKey(), false)
        .build();
}

@Override
protected Settings transportClientSettings() {
    return Settings.builder()
        .put(super.transportClientSettings())
        .put(XPackSettings.SECURITY_ENABLED.getKey(), false)
        .build();
}

public void testMonitoringEnabled() {
    internalCluster().startNode(Settings.builder()
        .put(XPackSettings.MONITORING_ENABLED.getKey(), true)
        .build());
    assertPluginIsLoaded();
    assertServiceIsBound(MonitoringService.class);}

public void testMonitoringDisabled() {
    internalCluster().startNode(Settings.builder()
        .put(XPackSettings.MONITORING_ENABLED.getKey(), false)
        .build());
    assertPluginIsLoaded();
    assertServiceIsNotBound(MonitoringService.class);}
}
public void testMonitoringEnabledOnTribeNode() {
    internalCluster().startNode(Settings.builder()
        .put(XPackSettings.MONITORING_ENABLED.getKey(), true)
        .put("tribe.name", "t1")
        .build());
    assertPluginIsLoaded();
    assertServiceIsBound(MonitoringService.class);
}

public void testMonitoringDisabledOnTribeNode() {
    internalCluster().startNode(Settings.builder().put("tribe.name", "t1").build());
    assertPluginIsLoaded();
    assertServiceIsNotBound(MonitoringService.class);
}

private void assertPluginIsLoaded() {
    NodesInfoResponse response = client().admin().cluster().prepareNodesInfo().setPlugins(true).get();
    for (NodeInfo nodeInfo : response.getNodes()) {
        assertNotNull(nodeInfo.getPlugins());
        boolean found = false;
        for (PluginInfo plugin : nodeInfo.getPlugins().getPluginInfos()) {
            assertNotNull(plugin);
            if (LocalStateMonitoring.class.getName().equals(plugin.getName())) {
                found = true;
                break;
            }
        }
        assertThat("xpack plugin not found", found, equalTo(true));
    }
}

private void assertServiceIsBound(Class<?> klass) {
    try {
        Object binding = internalCluster().getDataNodeInstance(klass);
        assertNotNull(binding);
        assertTrue(klass.isInstance(binding));
    } catch (Exception e) {
        fail("no service bound for class " + klass.getSimpleName());
    }
}

private void assertServiceIsNotBound(Class<?> klass) {
    try {
        // it should be bound, but directly as null
        assertNotNull(internalCluster().getDataNodeInstance(klass));
    } catch (Exception ce) {
assertThat("message contains error about missing implementation: "+ ce.getMessage(),
        ce.getMessage().contains("Could not find a suitable constructor"), equalTo(true));
    }
}
}

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*/
package org.elasticsearch.xpack.monitoring;

import org.elasticsearch.client.Client;
import org.elasticsearch.license.TribeTransportTestCase;
import org.elasticsearch.xpack.core.XPackField;
import org.elasticsearch.xpack.core.monitoring.action.MonitoringBulkAction;
import org.elasticsearch.xpack.core.monitoring.action.MonitoringBulkRequest;
import java.util.Collections;
import java.util.List;

public class MonitoringTribeTests extends TribeTransportTestCase {

    @Override
    protected List<String> enabledFeatures() {
        return Collections.singletonList(XPackField.MONITORING);
    }

    @Override
    protected void verifyActionOnClientNode(Client client) throws Exception {
        assertMonitoringTransportActionsWorks(client);
    }

    @Override
    protected void verifyActionOnMasterNode(Client masterClient) throws Exception {
        assertMonitoringTransportActionsWorks(masterClient);
    }

    @Override
    protected void verifyActionOnDataNode(Client dataNodeClient) throws Exception {
        assertMonitoringTransportActionsWorks(dataNodeClient);
    }

    private static void assertMonitoringTransportActionsWorks(Client client) throws Exception {
        client.execute(MonitoringBulkAction.INSTANCE, new MonitoringBulkRequest());
    }

    @Override

protected void verifyActionOnTribeNode(Client tribeClient) {
    failAction(tribeClient, MonitoringBulkAction.INSTANCE);
}
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 */
package org.elasticsearch.xpack;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.license.LicenseService;
import org.elasticsearch.license.XPackLicenseState;
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;
import org.elasticsearch.xpack.core.ssl.SSLService;
import org.elasticsearch.xpack.deprecation.Deprecation;
import org.elasticsearch.xpack.graph.Graph;
import org.elasticsearch.xpack.logstash.Logstash;
import org.elasticsearch.xpack.ml.MachineLearning;
import org.elasticsearch.xpack.monitoring.Monitoring;
import org.elasticsearch.xpack.security.Security;
import org.elasticsearch.xpack.xpack_core.xpack_state.LocalStateCompositeXPackPlugin;
import java.nio.file.Path;
public class CompositeTestingXPackPlugin extends LocalStateCompositeXPackPlugin {
    public CompositeTestingXPackPlugin(final Settings settings, final Path configPath) throws Exception {
        super(settings, configPath);
        CompositeTestingXPackPlugin thisVar = this;
        plugins.add(new Deprecation());
        plugins.add(new Graph(settings));
        plugins.add(new Logstash(settings));
        plugins.add(new MachineLearning(settings, configPath)) {
            @Override
            protected XPackLicenseState getLicenseState() {
                return super.getLicenseState();
            }
        };
        plugins.add(new Monitoring(settings)) {
            @Override
            protected SSLService getSslService() {
                return thisVar.getSslService();
            }
        };
        @Override
        protected LicenseService getLicenseService() {

return thisVar.getLicenseService();
}

@Override
protected XPackLicenseState getLicenseState() {
    return thisVar.getLicenseState();
}

});

plugins.add(new Watcher(settings) {
    @Override
    protected SSLService getSslService() {
        return thisVar.getSslService();
    }

    @Override
    protected XPackLicenseState getLicenseState() {
        return thisVar.getLicenseState();
    }
});

plugins.add(new Security(settings, configPath) {
    @Override
    protected SSLService getSslService() {
        return thisVar.getSslService();
    }

    @Override
    protected XPackLicenseState getLicenseState() {
        return thisVar.getLicenseState();
    } });

package org.elasticsearch.test;

import org.elasticsearch.Build;
import org.elasticsearch.common.bytes.BytesArray;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.transport.TransportAddress;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.license.GetLicenseResponse;
import org.elasticsearch.license.License;
import org.elasticsearch.license.LicensesStatus;
import org.elasticsearch.license.LicensingClient;
import org.elasticsearch.license.PutLicenseResponse;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;
import org.elasticsearch.xpack.core.XPackPlugin;

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*/
import org.elasticsearch.xpack.core.XPackSettings;
import org.junit.AfterClass;

import java.io.IOException;
import java.net.InetAddress;
import java.net.InetSocketAddress;
import java.net.URL;
import java.nio.charset.StandardCharsets;
import java.util.Collection;
import java.util.Collections;
import static org.hamcrest.CoreMatchers.equalTo;

public class LicensingTribeIT extends ESIntegTestCase {
    private static TestCluster cluster2;
    private static TestCluster tribeNode;

    @Override
    protected Collection<Class<? extends Plugin>> nodePlugins() {
        return Collections.singletonList(XPackPlugin.class);
    }

    @Override
    protected Collection<Class<? extends Plugin>> transportClientPlugins() {
        return Collections.singletonList(LocalStateCompositeXPackPlugin.class);
    }

    @Override
    public void setUp() throws Exception {
        super.setUp();
        if (cluster2 == null) {
            cluster2 = buildExternalCluster(System.getProperty("tests.cluster2"));
        }
        if (tribeNode == null) {
            tribeNode = buildExternalCluster(System.getProperty("tests.tribe"));
        }
    }

    @Override
    protected Settings nodeSettings(int nodeOrdinal) {
        Settings.Builder builder = Settings.builder();
        builder.put(super.nodeSettings(nodeOrdinal));
        return builder.build();
    }

    @AfterClass
    public static void tearDownExternalClusters() throws IOException {
        if (cluster2 != null) {
            // Tear down cluster2
        }
        if (tribeNode != null) {
            // Tear down tribeNode
        }
    }

    protected Settings nodeSettings(int nodeOrdinal) {
        Settings.Builder builder = Settings.builder();
        builder.put(super.nodeSettings(nodeOrdinal));
        return builder.build();
    }

    // Additional methods, test cases, etc.
}
try {
    cluster2.close();
} finally {
    cluster2 = null;
}

if (tribeNode != null) {
    try {
        tribeNode.close();
    } finally {
        tribeNode = null;
    }
}

@override
protected Settings externalClusterClientSettings() {
    Settings.Builder builder = Settings.builder();
    builder.put(XPackSettings.SECURITY_ENABLED.getKey(), false);
    builder.put(XPackSettings.MONITORING_ENABLED.getKey(), false);
    builder.put(XPackSettings.WATCHER_ENABLED.getKey(), false);
    builder.put(XPackSettings.GRAPH_ENABLED.getKey(), false);
    builder.put(XPackSettings.MACHINE_LEARNING_ENABLED.getKey(), false);
    return builder.build();
}

private ExternalTestCluster buildExternalCluster(String clusterAddresses) throws IOException {
    String[] stringAddresses = clusterAddresses.split(",");
    TransportAddress[] transportAddresses = new TransportAddress[stringAddresses.length];
    int i = 0;
    for (String stringAddress : stringAddresses) {
        URL url = new URL("http://" + stringAddress);
        InetAddress inetAddress = InetAddress.getByName(url.getHost());
        transportAddresses[i++] = new TransportAddress(new InetSocketAddress(inetAddress, url.getPort()));
    }
    return new ExternalTestCluster(createTempDir(), externalClusterClientSettings(), transportClientPlugins(),
        transportAddresses);
}

public void testLicensePropagateToTribeNode() throws Exception {
    assumeTrue("License is only valid when tested against snapshot/test keys", Build.CURRENT.isSnapshot());
    // test that auto-generated basic license propagates to tribe
    assertBusy(() -> {
        GetLicenseResponse getLicenseResponse = new LicensingClient(tribeNode.client()).prepareGetLicense().get();
        assertNotNull(getLicenseResponse.license());
        assertThat(getLicenseResponse.license().operationMode(), equalTo(License.OperationMode.BASIC));
    });
// test that signed license with higher operation mode takes precedence
LicensingClient cluster2Client = new LicensingClient(cluster2.client());
PutLicenseResponse licenseResponse = cluster2Client
  .preparePutLicense(License.fromSource(new
    BytesArray(PLATINUM_LICENSE.getBytes(StandardCharsets.UTF_8)), XContentType.JSON)
  .setAcknowledge(true).get();
assertThat(licenseResponse.isAcknowledged(), equalTo(true));
assertThat(licenseResponse.status(), equalTo(LicensesStatus.VALID));
assertBusy(() -> {
  GetLicenseResponse getLicenseResponse = new
  LicensingClient(tribeNode.client()).prepareGetLicense().get();
  assertNotNull(getLicenseResponse.license());
  assertThat(getLicenseResponse.license().operationMode(), equalTo(License.OperationMode.PLATINUM));
});

// test removing signed license falls back works
assertTrue(cluster2Client.prepareDeleteLicense().get().isAcknowledged());
assertBusy(() -> {
  GetLicenseResponse getLicenseResponse = new
  LicensingClient(tribeNode.client()).prepareGetLicense().get();
  assertNotNull(getLicenseResponse.license());
  assertThat(getLicenseResponse.license().operationMode(), equalTo(License.OperationMode.BASIC));
});

public void testDummy() throws Exception {
  // this test is here so that testLicensePropagateToTribeNode's assumption
  // doesn't result in this test suite to have no tests run and trigger a build failure
}

private static final String PLATINUM_LICENSE = "{""license":{"\"uid\"":"\"1\"","\"type\"":"\"platinum\"","\"issue_date_in_millis\":1411948800000,""expiry_date_in_millis":1914278399999,""max_nodes":1,""issued_to":"issuedTo","issuer":"issuer","\"signature":"AAAAAwAAAA2hWlkvKcxQ1pdlWVdCtAAAABmC9ZN0jhhJZDBGYnVyrXpCOW5Bb3FjZDAxOWpSbTVoMVZwUrzXVkI" + "\"signature_jwt":"AAAAAwAAAA2hWlkvKcxQ1pdlWVdCtAAAABmC9ZN0jhhJZDBGYnVyrXpCOW5Bb3FjZDAxOWpSbTVoMVZwUrzXVkI" + "\"signature_jwt":"AAAAAwAAAA2hWlkvKcxQ1pdlWVdCtAAAABmC9ZN0jhhJZDBGYnVyrXpCOW5Bb3FjZDAxOWpSbTVoMVZwUrzXVkI" + "\"signature_jwt":"AAAAAwAAAA2hWlkvKcxQ1pdlWVdCtAAAABmC9ZN0jhhJZDBGYnVyrXpCOW5Bb3FjZDAxOWpSbTVoMVZwUrzXVkI" + "\"signature_jwt":"AAAAAwAAAA2hWlkvKcxQ1pdlWVdCtAAAABmC9ZN0jhhJZDBGYnVyrXpCOW5Bb3FjZDAxOWpSbTVoMVZwUrzXVkI" + "\"signature_jwt":"AAAAAwAAAA2hWlkvKcxQ1pdlWVdCtAAAABmC9ZN0jhhJZDBGYnVyrXpCOW5Bb3FjZDAxOWpSbTVoMVZwUrzXVkI" + "\"signature_jwt":"AAAAAwAAAA2hWlkvKcxQ1pdlWVdCtAAAABmC9ZN0jhhJZDBGYnVyrXpCOW5Bb3FjZDAxOWpSbTVoMVZwUrzXVkI" + "\"signature_jwt":");
}
"8NyDfxKgztUl/IIozHPzxsof8Bv4OJeK48vjoVwDaCevmo4nISGyyL0JeEboWC6A3UmBsw7wLUe+hW9+akVAYOOSTImc60ub7k" +
"H/LIZN0hvGgIsvDhtl3p8EBkNMy0CV7urQ0wG1nLcnvf8/BiT151C5nLrM9Dt5w3pzciPLASzw4iksW/CzvYy5
tjOoWKEnxi2EzOB" +
"9dKyT4mTdvyBOrTHLd4lmHd3qYAEGcTCaQV","start_date_in_millis":-1})
import org.elasticsearch.gradle.test.ClusterConfiguration
import org.elasticsearch.gradle.test.ClusterFormationTasks
import org.elasticsearch.gradle.test.NodeInfo

apply plugin: 'elasticsearch.standalone-test'
apply plugin: 'elasticsearch.standalone-rest-test'
apply plugin: 'elasticsearch.rest-test'

dependencies {
  testCompile project(path: ':modules:tribe', configuration: 'runtime')
  testCompile project(path: xpackProject('plugin').path, configuration: 'testArtifacts')

  // TODO: remove all these test deps, this is completely bogus, guava is being force upgraded
  testCompile project(path: xpackModule('deprecation'), configuration: 'runtime')
  testCompile project(path: xpackModule('graph'), configuration: 'runtime')
  testCompile project(path: xpackModule('logstash'), configuration: 'runtime')
  testCompile project(path: xpackModule('ml'), configuration: 'runtime')
  testCompile project(path: xpackModule('monitoring'), configuration: 'runtime')
  testCompile project(path: xpackModule('security'), configuration: 'runtime')
  testCompile project(path: xpackModule('upgrade'), configuration: 'runtime')
  testCompile project(path: xpackModule('watcher'), configuration: 'runtime')
  testCompile project(path: xpackModule('core'), configuration: 'testArtifacts')
  testCompile project(path: xpackModule('monitoring'), configuration: 'testArtifacts')
}

compileTestJava.options.compilerArgs << "-Xlint:-rawtypes,-unchecked"

String licensePath = xpackProject('license-tools').projectDir.toPath().resolve('src/test/resources').toString()
sourceSets {
  test {
    resources {
      }
srcDirs += [licensePath]
}
}
}

project.forbiddenPatterns {
  exclude '**/*.key'
}

task setupClusterOne {}
ClusterConfiguration cluster1Config = new ClusterConfiguration(project)
cluster1Config.clusterName = 'cluster1'
cluster1Config.setting('node.name', 'cluster1-node1')
  // x-pack
cluster1Config.setting('xpack.monitoring.enabled', false)
cluster1Config.setting('xpack.security.enabled', false)
cluster1Config.setting('xpack.watcher.enabled', false)
cluster1Config.setting('xpack.graph.enabled', false)
cluster1Config.setting('xpack.ml.enabled', false)

List<NodeInfo> cluster1Nodes = ClusterFormationTasks.setup(project, 'clusterOne', setupClusterOne, cluster1Config)

task setupClusterTwo {}
ClusterConfiguration cluster2Config = new ClusterConfiguration(project)
cluster2Config.clusterName = 'cluster2'
cluster2Config.setting('node.name', 'cluster2-node1')
  // x-pack
cluster2Config.setting('xpack.monitoring.enabled', false)
cluster2Config.setting('xpack.monitoring.enabled', false)
cluster2Config.setting('xpack.security.enabled', false)
cluster2Config.setting('xpack.watcher.enabled', false)
cluster2Config.setting('xpack.graph.enabled', false)
cluster2Config.setting('xpack.ml.enabled', false)

List<NodeInfo> cluster2Nodes = ClusterFormationTasks.setup(project, 'clusterTwo', setupClusterTwo, cluster2Config)

integTestCluster {
  dependsOn setupClusterOne, setupClusterTwo
  setting 'node.name', 'tribe-node'
  setting 'tribe.on_conflict', 'prefer_cluster1'
  setting 'tribe.cluster1.cluster.name', 'cluster1'
  setting 'tribe.cluster1.discovery.zen.ping.unicast.hosts', "'$\{-> cluster1Nodes.get(0).transportUri\}'"'
  setting 'tribe.cluster1.http.enabled', 'true'
  setting 'tribe.cluster1.http.port', '0'
  setting 'tribe.cluster1.transport.tcp.port', '0'
  setting 'tribe.cluster1.xpack.monitoring.enabled', false
setting 'tribe.cluster1.xpack.monitoring.enabled', false
setting 'tribe.cluster1.xpack.security.enabled', false
setting 'tribe.cluster1.xpack.watcher.enabled', false
setting 'tribe.cluster1.xpack.graph.enabled', false
setting 'tribe.cluster1.xpack.ml.enabled', false
setting 'tribe.cluster1.xpack.license.self_generated.type', 'trial'
setting 'tribe.cluster2.cluster.name', 'cluster2'
setting 'tribe.cluster2.discovery.zen.ping.unicast.hosts', "'${-> cluster2Nodes.get(0).transportUri()}'"
setting 'tribe.cluster2.http.enabled', 'true'
setting 'tribe.cluster1.http.port', '0'
setting 'tribe.cluster1.transport.tcp.port', '0'
setting 'tribe.cluster2.xpack.monitoring.enabled', false
setting 'tribe.cluster2.xpack.security.enabled', false
setting 'tribe.cluster2.xpack.watcher.enabled', false
setting 'tribe.cluster2.xpack.graph.enabled', false
setting 'tribe.cluster2.xpack.ml.enabled', false
setting 'tribe.cluster2.xpack.license.self_generated.type', 'trial'

// x-pack
setting 'xpack.monitoring.enabled', false
setting 'xpack.security.enabled', false
setting 'xpack.watcher.enabled', false
setting 'xpack.graph.enabled', false
setting 'xpack.ml.enabled', false
setting 'xpack.license.self_generated.type', 'trial'

waitCondition = { node, ant ->
    File tmpFile = new File(node.cwd, 'wait.success')
    // 5 nodes: tribe + clusterOne (1 node + tribe internal node) + clusterTwo (1 node + tribe internal node)
            dest: tmpFile.toString(),
            ignoreerrors: true,
            retries: 10)
    return tmpFile.exists()
}

integTestRunner {
    /*
     * We have to disable setting the number of available processors as tests in the same JVM randomize processors and
     * will step on each
     * other if we allow them to set the number of available processors as it's set-once in Netty.
     */
    systemProperty 'es.set.netty.runtime.available.processors', 'false'
    systemProperty 'tests.cluster', "${-> cluster1Nodes.get(0).transportUri()}
    systemProperty 'tests.cluster2', "${-> cluster2Nodes.get(0).transportUri()}
    systemProperty 'tests.tribe', "${-> integTest.nodes.get(0).transportUri()}
    finalizedBy 'clusterOne#stop'
finalizedBy 'clusterTwo#stop'
}/*
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*/
/**
* Licensing for xpack.
*
* A \{ @link org.elasticsearch.license.License\} is a signed set of json properties that determine what features
* are available in a running cluster. Licenses are registered through a
* \{ @link org.elasticsearch.license.PutLicenseRequest\}. This action is handled by the master node, which places
* the signed license into the cluster state. Each node listens for cluster state updates via the
* \{ @link org.elasticsearch.license.LicenseService\}, and updates its local copy of the license when it detects
* changes in the cluster state.
*
* The logic for which features are available given the current license is handled by
* \{ @link org.elasticsearch.license.XPackLicenseState\}, which is updated by the
* \{ @link org.elasticsearch.license.LicenseService\} when the license changes.
*/
package org.elasticsearch.license;
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*/
package org.elasticsearch.license;
import org.elasticsearch.action.support.master.MasterNodeReadOperationRequestBuilder;
import org.elasticsearch.client.ElasticsearchClient;

public class GetLicenseRequestBuilder extends MasterNodeReadOperationRequestBuilder<GetLicenseRequest,
GetLicenseResponse,
GetLicenseRequestBuilder> {

    public GetLicenseRequestBuilder(ElasticsearchClient client) {
        this(client, GetLicenseAction.INSTANCE);
    }

    public GetLicenseRequestBuilder(ElasticsearchClient client) {
        this(client, GetLicenseAction.INSTANCE);
    }

    /**
     * Creates new get licenses request builder
     *
     * @param client elastic search client
     */
    public GetLicenseRequestBuilder(ElasticsearchClient client, GetLicenseAction action) {
        super(client, action, new GetLicenseRequest());
    }
package org.elasticsearch.license;

import org.elasticsearch.action.ActionRequestValidationException;
import org.elasticsearch.action.support.master.AcknowledgedRequest;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import java.io.IOException;

public class DeleteLicenseRequest extends AcknowledgedRequest<DeleteLicenseRequest> {

    public DeleteLicenseRequest() {
    }

    @Override
    public ActionRequestValidationException validate() {
        return null;
    }

    @Override
    public void readFrom(StreamInput in) throws IOException {
        super.readFrom(in);
    }

    @Override
    public void writeTo(StreamOutput out) throws IOException {
        super.writeTo(out);
    }
}

package org.elasticsearch.license;

import org.elasticsearch.action.Action;
import org.elasticsearch.client.ElasticsearchClient;

public class GetBasicStatusAction extends Action<GetBasicStatusRequest, GetBasicStatusResponse,


GetBasicStatusRequestBuilder> {  

    public static final GetBasicStatusAction INSTANCE = new GetBasicStatusAction();  
    public static final String NAME = "cluster:admin/xpack/license/basic_status";  

    private GetBasicStatusAction() {  
        super(NAME);  
    }  

    @Override  
    public GetBasicStatusRequestBuilder newRequestBuilder(ElasticsearchClient client) {  
        return new GetBasicStatusRequestBuilder(client, this);  
    }  

    @Override  
    public GetBasicStatusResponse newResponse() {  
        return new GetBasicStatusResponse();  
    }  

    */  
    /*  
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     */  
    package org.elasticsearch.license;  

    import org.elasticsearch.action.support.master.AcknowledgedResponse;  
    import org.elasticsearch.common.Strings;  
    import org.elasticsearch.common.io.stream.StreamInput;  
    import org.elasticsearch.common.io.stream.StreamOutput;  
    import org.elasticsearch.common.xcontent.XContentBuilder;  

    import java.io.IOException;  
    import java.util.Collections;  
    import java.util.HashMap;  
    import java.util.Map;  

    public class PutLicenseResponse extends AcknowledgedResponse {  

        private LicensesStatus status;  
        private Map<String, String[]> acknowledgeMessages;  
        private String acknowledgeHeader;  

        PutLicenseResponse() {  
        }  

        public PutLicenseResponse(boolean acknowledged, LicensesStatus status) {  
            this(acknowledged, status, null, Collections.<String, String[]>emptyMap());  
        }
public PutLicenseResponse(boolean acknowledged, LicensesStatus status, String acknowledgeHeader, Map<String, String[]> acknowledgeMessages) {
    super(acknowledged);
    this.status = status;
    this.acknowledgeHeader = acknowledgeHeader;
    this.acknowledgeMessages = acknowledgeMessages;
}

public LicensesStatus status() {
    return status;
}

public Map<String, String[]> acknowledgeMessages() {
    return acknowledgeMessages;
}

public String acknowledgeHeader() {
    return acknowledgeHeader;
}

@Override
public void readFrom(StreamInput in) throws IOException {
    super.readFrom(in);
    status = LicensesStatus.fromId(in.readVInt());
    acknowledgeHeader = in.readOptionalString();
    int size = in.readVInt();
    Map<String, String[]> acknowledgeMessages = new HashMap<>(size);
    for (int i = 0; i < size; i++) {
        String feature = in.readString();
        int nMessages = in.readVInt();
        String[] messages = new String[nMessages];
        for (int j = 0; j < nMessages; j++) {
            messages[j] = in.readString();
        }
        acknowledgeMessages.put(feature, messages);
    }
    this.acknowledgeMessages = acknowledgeMessages;
}

@Override
public void writeTo(StreamOutput out) throws IOException {
    super.writeTo(out);
    out.writeVInt(status.id());
    out.writeOptionalString(acknowledgeHeader);
    out.writeVInt(acknowledgeMessages.size());
    for (Map.Entry<String, String[]> entry : acknowledgeMessages.entrySet()) {
        }
}
out.writeString(entry.getKey());
out.writeVInt(entry.getValue().length);
for (String message : entry.getValue()) {
    out.writeString(message);
}

@Override
protected void addCustomFields(XContentBuilder builder, Params params) throws IOException {
    switch (status) {
    case VALID:
        builder.field("license_status", "valid");
        break;
    case INVALID:
        builder.field("license_status", "invalid");
        break;
    case EXPIRED:
        builder.field("license_status", "expired");
        break;
    default:
        throw new IllegalArgumentException("unknown status "+status+"] found");
    }
    if (!acknowledgeMessages.isEmpty()) {
        builder.startObject("acknowledge");
        builder.field("message", acknowledgeHeader);
        builder.field("message", acknowledgeHeader);
        for (Map.Entry<String, String[]> entry : acknowledgeMessages.entrySet()) {
            builder.startArray(entry.getKey());
            for (String message : entry.getValue()) {
                builder.value(message);
            }
            builder.endArray();
        }
        builder.endObject();
    }
}

@Override
public String toString() {
    return Strings.toString(this, true, true);
}

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  */
package org.elasticsearch.license;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.rest.RestController;
import org.elasticsearch.rest.RestRequest;
import org.elasticsearch.rest.action.RestToXContentListener;
import org.elasticsearch.xpack.core.XPackClient;
import org.elasticsearch.xpack.core.rest.XPackRestHandler;

import java.io.IOException;
import static org.elasticsearch.rest.RestRequest.Method.POST;
import static org.elasticsearch.rest.RestRequest.Method.PUT;

public class RestPutLicenseAction extends XPackRestHandler {
    public RestPutLicenseAction(Settings settings, RestController controller) {
        super(settings);
        // @deprecated Remove deprecations in 6.0
        controller.registerWithDeprecatedHandler(POST, URI_BASE + "/license", this,
            POST, "/_license", deprecationLogger);
        controller.registerWithDeprecatedHandler(PUT, URI_BASE + "/license", this,
            PUT, "/_license", deprecationLogger);

        // Remove _licenses support entirely in 6.0
        controller.registerAsDeprecatedHandler(POST, "/_licenses", this,
            "[POST _licenses] is deprecated! Use " +
            "[POST _xpack/license] instead.",
            deprecationLogger);
        controller.registerAsDeprecatedHandler(PUT, "/_licenses", this,
            "[PUT _licenses] is deprecated! Use " +
            "[PUT _xpack/license] instead.",
            deprecationLogger);
    }

    @Override
    public String getName() {
        return "xpack_put_license_action";
    }

    @Override
    public RestChannelConsumer doPrepareRequest(final RestRequest request, final XPackClient client) throws IOException {
        if (request.hasContent() == false) {
            throw new IllegalArgumentException("The license must be provided in the request body");
        }
        PutLicenseRequest putLicenseRequest = new PutLicenseRequest();
        putLicenseRequest.license(request.content(), request.getXContentType());
        putLicenseRequest.acknowledge(request.paramAsBoolean("acknowledge", false));
        putLicenseRequest.timeout(request.paramAsTime("timeout", putLicenseRequest.timeout()));
    }
}
putLicenseRequest.masterNodeTimeout(request.paramAsTime("master_timeout", putLicenseRequest.masterNodeTimeout()));

if ("basic".equals(putLicenseRequest.license().type())) {
    throw new IllegalArgumentException("Installing basic licenses is no longer allowed. Use the POST " + "/_xpack/license/start_basic API to install a basic license that does not expire.");
}

return channel -> client.es().admin().cluster().execute(PutLicenseAction.INSTANCE, putLicenseRequest, 
    new RestToXContentListener<>(channel));

package org.elasticsearch.license;

import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.rest.BytesRestResponse;
import org.elasticsearch.rest.RestController;
import org.elasticsearch.rest.RestRequest;
import org.elasticsearch.rest.RestResponse;
import org.elasticsearch.rest.action.RestBuilderListener;
import org.elasticsearch.xpack.core.XPackClient;
import org.elasticsearch.xpack.core.rest.XPackRestHandler;
import java.io.IOException;
import java.util.Map;
import static org.elasticsearch.rest.RestRequest.Method.POST;

public class RestPostStartTrialLicense extends XPackRestHandler {
    RestPostStartTrialLicense(Settings settings, RestController controller) {
        super(settings);
        controller.registerHandler(POST, URI_BASE + "/license/start_trial", this);
    }

    @Override
    protected RestChannelConsumer doPrepareRequest(RestRequest request, XPackClient client) throws IOException {
        PostStartTrialRequest startTrialRequest = new PostStartTrialRequest();
        startTrialRequest.setType(request.param("type", "trial"));
        startTrialRequest.acknowledge(request.paramAsBoolean("acknowledge", false));
        return channel -> client.licensing().postStartTrial(startTrialRequest,
new RestBuilderListener<PostStartTrialResponse>(channel) {
    @Override
    public RestResponse buildResponse(PostStartTrialResponse response, XContentBuilder builder) throws Exception {
        PostStartTrialResponse.Status status = response.getStatus();
        builder.startObject();
        builder.field("acknowledged", startTrialRequest.isAcknowledged());
        if (status.isTrialStarted()) {
            builder.field("trial_was_started", true);
            builder.field("type", startTrialRequest.getType());
        } else {
            builder.field("trial_was_started", false);
            builder.field("error_message", status.getErrorMessage());
        }

        Map<String, String[]> acknowledgementMessages = response.getAcknowledgementMessages();
        if (acknowledgementMessages.isEmpty() == false) {
            builder.startObject("acknowledge");
            builder.field("message", response.getAcknowledgementMessage());
            for (Map.Entry<String, String[]> entry : acknowledgementMessages.entrySet()) {
                builder.startArray(entry.getKey());
                for (String message : entry.getValue()) {
                    builder.value(message);
                }
                builder.endArray();
            }
            builder.endObject();
        }
        builder.endObject();
        return new BytesRestResponse(status.getRestStatus(), builder);
    }
}

@Override
public String getName() {
    return "xpack_upgrade_to_trial_action";
}

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 */
package org.elasticsearch.license;

import org.elasticsearch.action.ActionRequestBuilder;
import org.elasticsearch.client.ElasticsearchClient;
class PostStartBasicRequestBuilder extends ActionRequestBuilder<PostStartBasicRequest, PostStartBasicResponse, PostStartBasicRequestBuilder> {

    PostStartBasicRequestBuilder(ElasticsearchClient client, PostStartBasicAction action) {
        super(client, action, new PostStartBasicRequest());
    }

    public PostStartBasicRequestBuilder setAcknowledge(boolean acknowledge) {
        request.acknowledge(acknowledge);
        return this;
    }
}

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 */

package org.elasticsearch.license;

import org.elasticsearch.action.support.master.AcknowledgedResponse;

public class DeleteLicenseResponse extends AcknowledgedResponse {

    DeleteLicenseResponse() {
    }

    DeleteLicenseResponse(boolean acknowledged) {
        super(acknowledged);
    }
}

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 */

package org.elasticsearch.license;

import org.elasticsearch.action.support.master.AcknowledgedResponse;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.rest.RestStatus;
import java.io.IOException;
import java.util.Collections;
import java.util.HashMap;
import java.util.Map;

import java.io.IOException;
import java.util.Collections;
import java.util.HashMap;
import java.util.Map;
import static org.elasticsearch.license.PostStartBasicResponse.Status.NEED_ACKNOWLEDGEMENT;

class PostStartBasicResponse extends AcknowledgedResponse {

    private Map<String, String[]> acknowledgeMessages;
    private String acknowledgeMessage;

    enum Status {
        GENERATED_BASIC(true, null, RestStatus.OK),
        ALREADY_USING_BASIC(false, "Operation failed: Current license is basic.", RestStatus.FORBIDDEN),
        NEED_ACKNOWLEDGEMENT(false, "Operation failed: Needs acknowledgement.", RestStatus.OK);

        private final boolean isBasicStarted;
        private final String errorMessage;
        private final RestStatus restStatus;

        Status(boolean isBasicStarted, String errorMessage, RestStatus restStatus) {
            this.isBasicStarted = isBasicStarted;
            this.errorMessage = errorMessage;
            this.restStatus = restStatus;
        }

        boolean isBasicStarted() {
            return isBasicStarted;
        }

        String getErrorMessage() {
            return errorMessage;
        }

        RestStatus getRestStatus() {
            return restStatus;
        }
    }

    private Status status;

    PostStartBasicResponse() {
    }

    PostStartBasicResponse(Status status) {
        this(status, Collections.emptyMap(), null);
    }

    PostStartBasicResponse(Status status, Map<String, String[]> acknowledgeMessages, String acknowledgeMessage) {
        super(status != NEED_ACKNOWLEDGEMENT);
    }
}
this.status = status;
this.acknowledgeMessages = acknowledgeMessages;
this.acknowledgeMessage = acknowledgeMessage;
}

public Status getStatus() {
    return status;
}

@Override
public void readFrom(StreamInput in) throws IOException {
    super.readFrom(in);
    status = in.readEnum(Status.class);
    acknowledgeMessage = in.readOptionalString();
    int size = in.readVInt();
    Map<String, String[]> acknowledgeMessages = new HashMap<>(size);
    for (int i = 0; i < size; i++) {
        String feature = in.readString();
        int nMessages = in.readVInt();
        String[] messages = new String[nMessages];
        for (int j = 0; j < nMessages; j++) {
            messages[j] = in.readString();
        }
        acknowledgeMessages.put(feature, messages);
    }
    this.acknowledgeMessages = acknowledgeMessages;
}

@Override
public void writeTo(StreamOutput out) throws IOException {
    super.writeTo(out);
    out.writeEnum(status);
    out.writeOptionalString(acknowledgeMessage);
    out.writeVInt(acknowledgeMessages.size());
    for (Map.Entry<String, String[]> entry : acknowledgeMessages.entrySet()) {
        out.writeString(entry.getKey());
        out.writeVInt(entry.getValue().length);
        for (String message : entry.getValue()) {
            out.writeString(message);
        }
    }
}

@Override
protected void addCustomFields(XContentBuilder builder, Params params) throws IOException {
    if (status.isBasicStarted()) {
        builder.field("basic_was_started", true);
    } else {
...
builder.field("basic_was_started", false);
builder.field("error_message", status.getErrorMessage());
}
if (acknowledgeMessages.isEmpty() == false) {
    builder.startObject("acknowledge");
    builder.field("message", acknowledgeMessage);
    for (Map.Entry<String, String[]> entry : acknowledgeMessages.entrySet()) {
        builder.startArray(entry.getKey());
        for (String message : entry.getValue()) {
            builder.value(message);
        }
        builder.endArray();
    }
    builder.endObject();
}

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 */
package org.elasticsearch.license;

import org.elasticsearch.ElasticsearchException;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.action.support.ActionFilters;
import org.elasticsearch.action.support.master.TransportMasterNodeAction;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.cluster.ack.ClusterStateUpdateResponse;
import org.elasticsearch.cluster.block.ClusterBlockException;
import org.elasticsearch.cluster.block.ClusterBlockLevel;
import org.elasticsearch.cluster.metadata.IndexNameExpressionResolver;
import org.elasticsearch.common.inject.Inject;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.threadpool.ThreadPool;
import org.elasticsearch.transport.TransportService;

public class TransportDeleteLicenseAction extends TransportMasterNodeAction<DeleteLicenseRequest,
    DeleteLicenseResponse> {

    private final LicenseService licenseService;

    @Inject
    public TransportDeleteLicenseAction(Settings settings, TransportService transportService, ClusterService
        clusterService,
        LicenseService licenseService, ThreadPool threadPool, ActionFilters actionFilters,
IndexNameExpressionResolver indexNameExpressionResolver) {
    super(settings, DeleteLicenseAction.NAME, transportService, clusterService, threadPool, actionFilters,
    indexNameExpressionResolver, DeleteLicenseRequest::new);
    this.licenseService = licenseService;
}

@Override
protected String executor() {
    return ThreadPool.Names.MANAGEMENT;
}

@Override
protected DeleteLicenseResponse newResponse() {
    return new DeleteLicenseResponse();
}

@Override
protected ClusterBlockException checkBlock(DeleteLicenseRequest request, ClusterState state) {
    return state.blocks().globalBlockedException(ClusterBlockLevel.METADATA_WRITE);
}

@Override
protected void masterOperation(final DeleteLicenseRequest request, ClusterState state, final
ActionListener<DeleteLicenseResponse>
    listener) throws ElasticsearchException {
    licenseService.removeLicense(request, new ActionListener<ClusterStateUpdateResponse>() {
        @Override
        public void onResponse(ClusterStateUpdateResponse clusterStateUpdateResponse) {
            listener.onResponse(new DeleteLicenseResponse(clusterStateUpdateResponse.isAcknowledged()));
        }
        @Override
        public void onFailure(Exception e) {
            listener.onFailure(e);
        }
    });
}

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 */
package org.elasticsearch.license;

import org.apache.logging.log4j.Logger;
import org.apache.logging.log4j.message.ParameterizedMessage;
import org.apache.logging.log4j.util.Supplier;
import org.apache.lucene.util.BytesRef;
import org.elasticsearch.license.License.OperationMode;
import org.elasticsearch.watcher.FileChangesListener;
import org.elasticsearch.watcher.FileWatcher;
import org.elasticsearch.watcher.ResourceWatcherService;

import java.io.IOException;
import java.nio.file.Files;
import java.nio.file.Path;
import java.util.concurrent.atomic.AtomicBoolean;

/**
 * File based watcher for license {@link OperationMode}
 * Watches for changes in <code>licenseModePath</code>, use
 * {@link #getCurrentOperationMode()} to access the latest mode
 * *
 * In case of failure to read a valid operation mode from <code>licenseModePath</code>,
 * the operation mode will default to PLATINUM
 */
public final class OperationModeFileWatcher implements FileChangesListener {
    private final ResourceWatcherService resourceWatcherService;
    private final Path licenseModePath;
    private final AtomicBoolean initialized = new AtomicBoolean();
    private final OperationMode defaultOperationMode = OperationMode.PLATINUM;
    private volatile OperationMode currentOperationMode = defaultOperationMode;
    private final Logger logger;
    private final RunnableOnChange;

    public OperationModeFileWatcher(ResourceWatcherService resourceWatcherService, Path licenseModePath,
                                     Logger logger, RunnableOnChange onChange) {
        this.resourceWatcherService = resourceWatcherService;
        this.licenseModePath = licenseModePath;
        this.logger = logger;
        this.onChange = onChange;
    }

    public void init() {
        if (initialized.compareAndSet(false, true)) {
            final FileWatcher watcher = new FileWatcher(licenseModePath);
            watcher.addListener(this);
            try {
                resourceWatcherService.add(watcher, ResourceWatcherService.Frequency.HIGH);
                if (Files.exists(licenseModePath)) {
                    onChange(licenseModePath);
                }
            } catch (IOException e) {
                logger.error("couldn't initialize watching license mode file", e);
            }
        }
    }
}
/**
 * Returns the current operation mode based on license mode file.
 * Defaults to {@link OperationMode#PLATINUM}
 */
public OperationMode getCurrentOperationMode() {
    return currentOperationMode;
}

@Override
public void onFileInit(Path file) {
    onChange(file);
}

@Override
public void onFileCreated(Path file) {
    onChange(file);
}

@Override
public void onFileDeleted(Path file) {
    onChange(file);
}

@Override
public void onFileDeleted(Path file) {
    onChange(file);
}

private synchronized void onChange(Path file) {
    if (file.equals(licenseModePath)) {
        OperationMode newOperationMode = defaultOperationMode;
        try {
            if (Files.exists(licenseModePath)
                && Files.isReadable(licenseModePath)) {
                final byte[] content;
                try {
                    content = Files.readAllBytes(licenseModePath);
                } catch (IOException e) {
                    logger.error((Supplier<?>) () -> 
                        new ParameterizedMessage("couldn't read operation mode from 
                        [{ }]", licenseModePath.toAbsolutePath()), e);
                    return;
                }
            // this UTF-8 conversion is much pickier than java String
final String operationMode = new BytesRef(content).utf8ToString();
try {
    newOperationMode = OperationMode.resolve(operationMode);
} catch (IllegalArgumentException e) {
    logger.error(
        (Supplier<?>) () -> new ParameterizedMessage(
            "invalid operation mode in [{[]}]", licenseModePath.toAbsolutePath()), e);
    return;
}
finally {
    // set this after the fact to prevent that we are jumping back and forth first setting to defautl and then
    // actual op mode resetting it.
    this.currentOperationMode = newOperationMode;
    onChange.run();
}
}

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 */
package org.elasticsearch.license;

import org.elasticsearch.action.ActionResponse;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import java.io.IOException;

class GetTrialStatusResponse extends ActionResponse {

    private boolean eligibleToStartTrial;

    GetTrialStatusResponse() {
    }

    GetTrialStatusResponse(boolean eligibleToStartTrial) {
        this.eligibleToStartTrial = eligibleToStartTrial;
    }

    boolean isEligibleToStartTrial() {
        return eligibleToStartTrial;
    }
}
@Override
public void readFrom(StreamInput in) throws IOException {
    eligibleToStartTrial = in.readBoolean();
}

@override
public void writeTo(StreamOutput out) throws IOException {
    out.writeBoolean(eligibleToStartTrial);
}

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 */
package org.elasticsearch.license;

import javax.crypto.BadPaddingException;
import javax.crypto.Cipher;
import javax.crypto.IllegalBlockSizeException;
import javax.crypto.NoSuchPaddingException;
import javax.crypto.SecretKey;
import javax.crypto.SecretKeyFactory;
import javax.crypto.spec.PBEKeySpec;
import javax.crypto.spec.SecretKeySpec;
import java.nio.charset.StandardCharsets;
import java.security.GeneralSecurityException;
import java.security.KeyFactory;
import java.security.MessageDigest;
import java.security.PrivateKey;
import java.security.PublicKey;
import java.security.SecureRandom;
import java.security.NoSuchAlgorithmException;
import java.security.InvalidKeyException;
import java.security.spec.InvalidKeySpecException;
import java.security.spec.PKCS8EncodedKeySpec;
import java.security.spec.X509EncodedKeySpec;
import java.util.Base64;

public class CryptUtils {
    // SALT must be at least 128bits for FIPS 140-2 compliance
    private static final byte[] SALT = {
        (byte) 0x74, (byte) 0x68, (byte) 0x69, (byte) 0x73,
        (byte) 0x69, (byte) 0x73, (byte) 0x74, (byte) 0x68,
        (byte) 0x65, (byte) 0x73, (byte) 0x61, (byte) 0x6C,
        (byte) 0x74, (byte) 0x77, (byte) 0x65, (byte) 0x75
    };

private static final String KEY_ALGORITHM = "RSA";
private static final char[] DEFAULT_PASS_PHRASE = "elasticsearch-license".toCharArray();
private static final String KDF_ALGORITHM = "PBKDF2WithHmacSHA512";
private static final int KDF_ITERATION_COUNT = 10000;
private static final String CIPHER_ALGORITHM = "AES";
// This can be changed to 256 once Java 9 is the minimum version
// http://www.oracle.com/technetwork/java/javase/terms/readme/jdk9-readme-3852447.html#jce
private static final int ENCRYPTION_KEY_LENGTH = 128;
private static final SecureRandom RANDOM = new SecureRandom();

/**
 * Read encrypted private key file content with default pass phrase
 */
public static PrivateKey readEncryptedPrivateKey(byte[] fileContents) {
    return readEncryptedPrivateKey(fileContents, DEFAULT_PASS_PHRASE, false);
}

/**
 * Returns encrypted private key file content with default pass phrase
 */
public static byte[] writeEncryptedPrivateKey(PrivateKey privateKey) {
    return writeEncryptedPrivateKey(privateKey, DEFAULT_PASS_PHRASE);
}

/**
 * Read encrypted private key file content with provided <code>passPhrase</code>
 */
public static PrivateKey readEncryptedPrivateKey(byte[] fileContents, char[] passPhrase, boolean preV4) {
    byte[] keyBytes = preV4 ? decryptV3Format(fileContents) : decrypt(fileContents, passPhrase);
    PKCS8EncodedKeySpec privateKeySpec = new PKCS8EncodedKeySpec(keyBytes);
    try {
        return KeyFactory.getInstance(KEY_ALGORITHM).generatePrivate(privateKeySpec);
    } catch (NoSuchAlgorithmException | InvalidKeySpecException e) {
        throw new IllegalStateException(e);
    }
}

/**
 * Read public key file content
 */
public static PublicKey readPublicKey(byte[] fileContents) {
    X509EncodedKeySpec publicKeySpec = new X509EncodedKeySpec(fileContents);
    try {
        return KeyFactory.getInstance(CryptUtils.KEY_ALGORITHM).generatePublic(publicKeySpec);
    } catch (NoSuchAlgorithmException | InvalidKeySpecException e) {
        throw new IllegalStateException(e);
    }
}
/** *
 * Returns encrypted public key file content with provided <code>passPhrase</code>
 */
public static byte[] writeEncryptedPublicKey(PublicKey publicKey) {
    X509EncodedKeySpec encodedKeySpec = new X509EncodedKeySpec(publicKey.getEncoded());
    return encrypt(encodedKeySpec.getEncoded(), DEFAULT_PASS_PHRASE);
}

/** *
 * Returns encrypted private key file content with provided <code>passPhrase</code>
 */
public static byte[] writeEncryptedPrivateKey(PrivateKey privateKey, char[] passPhrase) {
    PKCS8EncodedKeySpec encodedKeySpec = new PKCS8EncodedKeySpec(privateKey.getEncoded());
    return encrypt(encodedKeySpec.getEncoded(), passPhrase);
}

/** *
 * Encrypts provided <code>data</code> with <code>DEFAULT_PASS_PHRASE</code>
 */
static byte[] encrypt(byte[] data) {
    return encrypt(data, DEFAULT_PASS_PHRASE);
}

/** *
 * Decrypts provided <code>encryptedData</code> with <code>DEFAULT_PASS_PHRASE</code>
 */
static byte[] decrypt(byte[] encryptedData) {
    return decrypt(encryptedData, DEFAULT_PASS_PHRASE);
}

/** *
 * Encrypts provided <code>data</code> with <code>passPhrase</code>
 */
private static byte[] encrypt(byte[] data, char[] passPhrase) {
    try {
        final Cipher encryptionCipher = getEncryptionCipher(deriveSecretKey(passPhrase));
        return encryptionCipher.doFinal(data);
    } catch (IllegalBlockSizeException | BadPaddingException e) {
        throw new IllegalStateException(e);
    }
}

/** *
 * Decrypts provided <code>encryptedData</code> with <code>passPhrase</code>
 */
private static byte[] decrypt(byte[] encryptedData, char[] passPhrase) {
    try {
        // Implementation...
    } catch (Exception e) {
        throw new IllegalStateException(e);
    }
}
final Cipher cipher = getDecryptionCipher(deriveSecretKey(passPhrase));
return cipher.doFinal(encryptedData);
} catch (IllegalBlockSizeException | BadPaddingException e) {
    throw new IllegalStateException(e);
}

static byte[] encryptV3Format(byte[] data) {
try {
    SecretKey encryptionKey = getV3Key();
    final Cipher encryptionCipher = getEncryptionCipher(encryptionKey);
    return encryptionCipher.doFinal(pad(data, 20));
} catch (GeneralSecurityException e) {
    throw new IllegalStateException(e);
}

static byte[] decryptV3Format(byte[] data) {
try {
    SecretKey decryptionKey = getV3Key();
    final Cipher decryptionCipher = getDecryptionCipher(decryptionKey);
    return unPad(decryptionCipher.doFinal(data));
} catch (GeneralSecurityException e) {
    throw new IllegalStateException(e);
}

private static SecretKey getV3Key() throws NoSuchAlgorithmException, InvalidKeySpecException {
    final byte[] salt = {
        (byte) 0xA9, (byte) 0xA2, (byte) 0xB5, (byte) 0xDE,
        (byte) 0x2A, (byte) 0x8A, (byte) 0x9A, (byte) 0xE6
    };
    final byte[] passBytes = "elasticsearch-license".getBytes(StandardCharsets.UTF_8);
    final byte[] digest = MessageDigest.getInstance("SHA-512").digest(passBytes);
    final char[] hashedPassphrase = Base64.getEncoder().encodeToString(digest).toCharArray();
    PBEKeySpec keySpec = new PBEKeySpec(hashedPassphrase, salt, 1024, 128);
    byte[] shortKey = SecretKeyFactory.getInstance("PBEWithSHA1AndDESede").
generateSecret(keySpec).getEncoded();
    byte[] intermediaryKey = new byte[16];
    for (int i = 0, j = 0; i < 16; i++) {
        intermediaryKey[i] = shortKey[j];
        if (++j == shortKey.length)
            j = 0;
    }
    return new SecretKeySpec(intermediaryKey, "AES");
}

private static SecretKey deriveSecretKey(char[] passPhrase) {
try {
    PBEKeySpec keySpec = new PBEKeySpec(passPhrase, SALT, KDF_ITERATION_COUNT, ENCRYPTION_KEY_LENGTH);
    SecretKey secretKey = SecretKeyFactory.getInstance(KDF_ALGORITHM).generateSecret(keySpec);
    return new SecretKeySpec(secretKey.getEncoded(), CIPHER_ALGORITHM);
} catch (NoSuchAlgorithmException | InvalidKeySpecException e) {
    throw new IllegalStateException(e);
}

private static Cipher getEncryptionCipher(SecretKey secretKey) {
    return getCipher(Cipher.ENCRYPT_MODE, secretKey);
}

private static Cipher getDecryptionCipher(SecretKey secretKey) {
    return getCipher(Cipher.DECRYPT_MODE, secretKey);
}

private static Cipher getCipher(int mode, SecretKey secretKey) {
    try {
        Cipher cipher = Cipher.getInstance(CIPHER_ALGORITHM);
        cipher.init(mode, secretKey, RANDOM);
        return cipher;
    } catch (NoSuchAlgorithmException | InvalidKeyException | NoSuchPaddingException e) {
        throw new IllegalStateException(e);
    }
}

private static byte[] pad(byte[] bytes, int length) {
    if (bytes.length >= length) {
        byte[] out = new byte[bytes.length + 1];
        System.arraycopy(bytes, 0, out, 0, bytes.length);
        out[bytes.length] = (byte) 1;
        return out;
    }
    byte[] out = new byte[length + 1];
    int i = 0;
    for (; i < bytes.length; i++)
        out[i] = bytes[i];
    int padded = length - i;
    // fill the rest with random bytes
    byte[] fill = new byte[padded - 1];
    }
}
public class RestGetTrialStatus extends XPackRestHandler {

    RestGetTrialStatus(Setup settings, RestController controller) {
        super(settings);
        controller.registerHandler(GET, URI_BASE + "license/trial_status", this);
    }
}

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*/
package org.elasticsearch.license;

import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.rest.BytesRestResponse;
import org.elasticsearch.rest.RestController;
import org.elasticsearch.rest.RestRequest;
import org.elasticsearch.rest.RestResponse;
import org.elasticsearch.rest.action.RestBuilderListener;
import org.elasticsearch.xpack.core.XPackClient;
import org.elasticsearch.xpack.core.rest.XPackRestHandler;
import java.io.IOException;
import static org.elasticsearch.rest.RestRequest.Method.GET;

class RestGetTrialStatus extends XPackRestHandler {

    RestGetTrialStatus(Setup settings, RestController controller) {
        super(settings);
        controller.registerHandler(GET, URI_BASE + "license/trial_status", this);
    }
}

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*/
package org.elasticsearch.license;

import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.rest.BytesRestResponse;
import org.elasticsearch.rest.RestController;
import org.elasticsearch.rest.RestRequest;
import org.elasticsearch.rest.RestResponse;
import org.elasticsearch.rest.action.RestBuilderListener;
import org.elasticsearch.xpack.core.XPackClient;
import org.elasticsearch.xpack.core.rest.XPackRestHandler;
import java.io.IOException;
import static org.elasticsearch.rest.RestRequest.Method.GET;

public class RestGetTrialStatus extends XPackRestHandler {

    RestGetTrialStatus(Setup settings, RestController controller) {
        super(settings);
        controller.registerHandler(GET, URI_BASE + "license/trial_status", this);
    }
}
@Override
protected RestChannelConsumer doPrepareRequest(RestRequest request, XPackClient client) throws IOException {
    return channel -> client.licensing().prepareGetStartTrial().execute(
        new RestBuilderListener<GetTrialStatusResponse>(channel) {
            @Override
            public RestResponse buildResponse(GetTrialStatusResponse response, XContentBuilder builder) throws Exception {
                builder.startObject();
                builder.field("eligible_to_start_trial", response.isEligibleToStartTrial());
                builder.endObject();
                return new BytesRestResponse(RestStatus.OK, builder);
            }
        });
}

@Override
public String getName() {
    return "xpack_trial_status_action";
}

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 */
package org.elasticsearch.license;

import org.elasticsearch.action.Action;
import org.elasticsearch.client.ElasticsearchClient;

public class PostStartTrialAction extends Action<PostStartTrialRequest, PostStartTrialResponse, PostStartTrialRequestBuilder> {

    public static final PostStartTrialAction INSTANCE = new PostStartTrialAction();
    public static final String NAME = "cluster:admin/xpack/license/start_trial";

    private PostStartTrialAction() {
        super(NAME);
    }

    @Override
    public PostStartTrialRequestBuilder newRequestBuilder(ElasticsearchClient client) {
        return new PostStartTrialRequestBuilder(client, this);
    }

    @Override
    public PostStartTrialResponse newResponse() {
        return null;
    }
}
public class LicenseUtils {

    public static final String EXPIRED_FEATURE_METADATA = "es.license.expired.feature";

    /**
     * Exception to be thrown when a feature action requires a valid license, but license
     * has expired
     *
     * <code>feature</code> accessible through {@link #EXPIRED_FEATURE_METADATA} in the
     * exception's rest header
     */
    public static ElasticsearchSecurityException newComplianceException(String feature) {
        ElasticsearchSecurityException e = new ElasticsearchSecurityException("current license is non-compliant for
        \[{}\]",
            RestStatus.FORBIDDEN, feature);
        e.addMetadata(EXPIRED_FEATURE_METADATA, feature);
        return e;
    }

    /**
     * Checks if a given {@link ElasticsearchSecurityException} refers to a feature that
     * requires a valid license, but the license has expired.
     */
    public static boolean isLicenseExpiredException(ElasticsearchSecurityException exception) {
        return (exception != null) && (exception.getMetadata(EXPIRED_FEATURE_METADATA) != null);
    }

    public static boolean licenseNeedsExtended(License license) {
        return "basic".equals(license.type()) && license.expiryDate() != LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS;
    }
}
/**
 * Checks if the signature of a self generated license with older version needs to be
 * recreated with the new key
 */

public static boolean signatureNeedsUpdate(License license, DiscoveryNodes currentNodes) {
    assert License.VERSION_CRYPTO_ALGORITHMS == License.VERSION_CURRENT : "update this method when adding a new version";

    return ("basic".equals(license.type()) || "trial".equals(license.type())) &&
    // only upgrade signature when all nodes are ready to deserialize the new signature
    (license.version() < License.VERSION_CRYPTO_ALGORITHMS &&
    compatibleLicenseVersion(currentNodes) == License.VERSION_CRYPTO_ALGORITHMS
    );
}

public static int compatibleLicenseVersion(DiscoveryNodes currentNodes) {
    assert License.VERSION_CRYPTO_ALGORITHMS == License.VERSION_CURRENT : "update this method when adding a new version";

    if (StreamSupport.stream(currentNodes.spliterator(), false)
    .allMatch(node -> node.getVersion().onOrAfter(Version.V_6_4_0))) {
        // License.VERSION_CRYPTO_ALGORITHMS was introduced in 6.4.0
        return License.VERSION_CRYPTO_ALGORITHMS;
    } else {
        return License.VERSION_START_DATE;
    }
}

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*/

package org.elasticsearch.license;

import org.elasticsearch.action.ActionRequestValidationException;
import org.elasticsearch.action.support.master.MasterNodeReadRequest;

public class GetTrialStatusRequest extends MasterNodeReadRequest<GetTrialStatusRequest> {

    public GetTrialStatusRequest() {
    }

    @Override
    public ActionRequestValidationException validate() {
        return null;
    }
}
package org.elasticsearch.license;

import org.elasticsearch.action.Action;
import org.elasticsearch.client.ElasticsearchClient;

public class DeleteLicenseAction extends Action<DeleteLicenseRequest, DeleteLicenseResponse, DeleteLicenseRequestBuilder> {

    public static final DeleteLicenseAction INSTANCE = new DeleteLicenseAction();
    public static final String NAME = "cluster:admin/xpack/license/delete";

    private DeleteLicenseAction() {
        super(NAME);
    }

    @Override
    public DeleteLicenseResponse newResponse() {
        return new DeleteLicenseResponse();
    }

    @Override
    public DeleteLicenseRequestBuilder newRequestBuilder(ElasticsearchClient client) {
        return new DeleteLicenseRequestBuilder(client, this);
    }
}

package org.elasticsearch.license;

import org.elasticsearch.ElasticsearchException;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.action.support.ActionFilters;
import org.elasticsearch.action.support.master.TransportMasterNodeAction;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.block.ClusterBlockException;
import org.elasticsearch.cluster.block.ClusterBlockLevel;
import org.elasticsearch.cluster.metadata.IndexNameExpressionResolver;
import org.elasticsearch.common.inject.Inject;


import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.threadpool.ThreadPool;
import org.elasticsearch.transport.TransportService;

public class TransportPutLicenseAction extends TransportMasterNodeAction<PutLicenseRequest, PutLicenseResponse> {

    private final LicenseService licenseService;

    @Inject
    public TransportPutLicenseAction(Settings settings, TransportService transportService, ClusterService clusterService, LicenseService licenseService, ThreadPool threadPool, ActionFilters actionFilters, IndexNameExpressionResolver indexNameExpressionResolver) {
        super(settings, PutLicenseAction.NAME, transportService, clusterService, threadPool, actionFilters, indexNameExpressionResolver, PutLicenseRequest::new);
        this.licenseService = licenseService;
    }

    @Override
    protected String executor() {
        return ThreadPool.Names.MANAGEMENT;
    }

    @Override
    protected PutLicenseResponse newResponse() {
        return new PutLicenseResponse();
    }

    @Override
    protected ClusterBlockException checkBlock(PutLicenseRequest request, ClusterState state) {
        return state.blocks().globalBlockedException(ClusterBlockLevel.METADATA_WRITE);
    }

    @Override
    protected void masterOperation(final PutLicenseRequest request, ClusterState state, final ActionListener<PutLicenseResponse> listener) throws ElasticsearchException {
        licenseService.registerLicense(request, listener);
    }

    }

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    */
package org.elasticsearch.license;

import org.elasticsearch.action.ActionRequestBuilder;
import org.elasticsearch.client.ElasticsearchClient;

class GetTrialStatusRequestBuilder extends ActionRequestBuilder<GetTrialStatusRequest,
GetTrialStatusResponse, GetTrialStatusRequestBuilder> {

GetTrialStatusRequestBuilder(ElasticsearchClient client, GetTrialStatusAction action) {
    super(client, action, new GetTrialStatusRequest());
}
}

package org.elasticsearch.license;

import org.elasticsearch.Version;
import org.elasticsearch.common.Nullable;
import org.elasticsearch.common.Strings;
import org.elasticsearch.common.logging.LoggerMessageFormat;
import org.elasticsearch.common.logging.Loggers;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.license.License.OperationMode;
import org.elasticsearch.xpack.core.XPackField;
import org.elasticsearch.xpack.core.XPackSettings;
import org.elasticsearch.xpack.core.monitoring.MonitoringField;

import java.util.Collections;
import java.util.LinkedHashMap;
import java.util.List;
import java.util.Map;
import java.util.Objects;
import java.util.concurrent.CopyOnWriteArrayList;
import java.util.function.BiFunction;

/**
 * A holder for the current state of the license for all xpack features.
 */
public class XPackLicenseState {

    /** Messages for each feature which are printed when the license expires. */
    static final Map<String, String[]> EXPIRATION_MESSAGES;
    static {
        Map<String, String[]> messages = new LinkedHashMap<>();
        messages.put(XPackField.SECURITY, new String[] {
            ...
        });
    }

    // Other methods...
}
"Cluster health, cluster stats and indices stats operations are blocked",
"All data operations (read and write) continue to work"
});
messages.put(XPackField.WATCHER, new String[] {
  "PUT / GET watch APIs are disabled, DELETE watch API continues to work",
  "Watches execute and write to the history",
  "The actions of the watches don’t execute"
});
messages.put(XPackField.MONITORING, new String[] {
  "The agent will stop collecting cluster and indices metrics",
  "The agent will stop automatically cleaning indices older than [xpack.monitoring.history.duration]"
});
messages.put(XPackField.GRAPH, new String[] {
  "Graph explore APIs are disabled"
});
messages.put(XPackField.MACHINE_LEARNING, new String[] {
  "Machine learning APIs are disabled"
});
messages.put(XPackField.LOGSTASH, new String[] {
  "Logstash will continue to poll centrally-managed pipelines"
});
messages.put(XPackField.DEPRECATION, new String[] {
  "Deprecation APIs are disabled"
});
messages.put(XPackField.UPGRADE, new String[] {
  "Upgrade API is disabled"
});
messages.put(XPackField.SQL, new String[] {
  "SQL support is disabled"
});
messages.put(XPackField.ROLLUP, new String[] {
  "Creating and Starting rollup jobs will no longer be allowed.",
  "Stopping/Deleting existing jobs, RollupCaps API and RollupSearch continue to function."
});
EXPIRATION_MESSAGES = Collections.unmodifiableMap(messages);
}

/**
 * Messages for each feature which are printed when the license type changes.
 * The value is a function taking the old and new license type, and returns the messages for that feature.
 */
static final Map<String, BiFunction<OperationMode, OperationMode, String[]>> ACKNOWLEDGMENT_MESSAGES;
static {
  Map<String, BiFunction<OperationMode, OperationMode, String[]>> messages = new LinkedHashMap<>();
  messages.put(XPackField.SECURITY, XPackLicenseState::securityAcknowledgementMessages);
  messages.put(XPackField.WATCHER, XPackLicenseState::watcherAcknowledgementMessages);
  messages.put(XPackField.MONITORING, XPackLicenseState::monitoringAcknowledgementMessages);
}
messages.put(XPackField.GRAPH, XPackLicenseState::graphAcknowledgementMessages);
messages.put(XPackField.MACHINE_LEARNING, XPackLicenseState::machineLearningAcknowledgementMessages);
messages.put(XPackField.LOGSTASH, XPackLicenseState::logstashAcknowledgementMessages);
messages.put(XPackField.SQL, XPackLicenseState::sqlAcknowledgementMessages);

ACKNOWLEDGMENT_MESSAGES = Collections.unmodifiableMap(messages);

private static String[] securityAcknowledgementMessages(OperationMode currentMode, OperationMode newMode) {
    switch (newMode) {
        case BASIC:
            switch (currentMode) {
                case TRIAL:
                    case STANDARD:
                        case GOLD:
                            case PLATINUM:
                                return new String[] {
                                    "The following X-Pack security functionality will be disabled: authentication, authorization, " +
                                    "ip filtering, and auditing. Please restart your node after applying the license.",
                                    "Field and document level access control will be disabled.",
                                    "Custom realms will be ignored."
                                };
            }
            break;
        case GOLD:
            switch (currentMode) {
                case BASIC:
                case STANDARD:
                    // ^ though technically it was already disabled, it's not bad to remind them
                    case TRAIL:
                    case PLATINUM:
                        return new String[] {
                            "Field and document level access control will be disabled.",
                            "Custom realms will be ignored."
                        };
                }
            break;
        case STANDARD:
            switch (currentMode) {
                case BASIC:
                    // ^ though technically it was already disabled, it's not bad to remind them
                    case GOLD:
                    case PLATINUM:
                    case TRAIL:
                        return new String[] {
                            "Authentication will be limited to the native realms.",
                            "IP filtering and auditing will be disabled.",
                        };
            }
            break;
    }
}
"Field and document level access control will be disabled.",
"Custom realms will be ignored."
];
}
}
return Strings.EMPTY_ARRAY;
}

private static String[] watcherAcknowledgementMessages(OperationMode currentMode, OperationMode newMode) {
    switch (newMode) {
        case BASIC:
            switch (currentMode) {
                case TRIAL:
                case STANDARD:
                case GOLD:
                case PLATINUM:
                    return new String[] { "Watcher will be disabled" };
            }
            break;
    }
    return Strings.EMPTY_ARRAY;
}

private static String[] monitoringAcknowledgementMessages(OperationMode currentMode, OperationMode newMode) {
    switch (newMode) {
        case BASIC:
            switch (currentMode) {
                case TRIAL:
                case STANDARD:
                case GOLD:
                case PLATINUM:
                    return new String[] {
                        LoggerMessageFormat.format("Multi-cluster support is disabled for clusters with [{}] license. If you are\n" +
                        "running multiple clusters, users won't be able to access the clusters with\n" +
                        "[{}] licenses from within a single X-Pack Kibana instance. You will have to deploy a\n" +
                        "separate and dedicated X-pack Kibana instance for each [{}] cluster you wish to monitor.",
                        newMode, newMode, newMode),
                        LoggerMessageFormat.format("Automatic index cleanup is locked to {} days for clusters with [{}] license.",
                        MonitoringField.HISTORY_DURATION.getDefault(Settings.EMPTY).days(), newMode)
                    };
            }
            break;
    }
    return Strings.EMPTY_ARRAY;
private static String[] graphAcknowledgementMessages(OperationMode currentMode, OperationMode newMode) {
    switch (newMode) {
        case BASIC:
            case STANDARD:
            case GOLD:
                switch (currentMode) {
                    case TRIAL:
                    case PLATINUM:
                        return new String[] { "Graph will be disabled" };
                }
                break;
    }
    return Strings.EMPTY_ARRAY;
}

private static String[] machineLearningAcknowledgementMessages(OperationMode currentMode, OperationMode newMode) {
    switch (newMode) {
        case BASIC:
        case STANDARD:
        case GOLD:
            switch (currentMode) {
                case TRIAL:
                case PLATINUM:
                    return new String[] { "Machine learning will be disabled" };
            }
            break;
    }
    return Strings.EMPTY_ARRAY;
}

private static String[] logstashAcknowledgementMessages(OperationMode currentMode, OperationMode newMode) {
    switch (newMode) {
        case BASIC:
            switch (currentMode) {
                case TRIAL:
                case STANDARD:
                case GOLD:
                case PLATINUM:
                    return new String[] { "Logstash will no longer poll for centrally-managed pipelines" };
            }
            break;
    }
    return Strings.EMPTY_ARRAY;
```java
private static String[] sqlAcknowledgementMessages(OperationMode currentMode, OperationMode newMode) {
    switch (newMode) {
        case BASIC:
            case STANDARD:
                case GOLD:
                    switch (currentMode) {
                        case TRIAL:
                            case PLATINUM:
                                return new String[] { "JDBC support will be disabled, but you can continue to use SQL CLI and REST endpoint" };  
                                }
                            break;
                        }  
            }
    return Strings.EMPTY_ARRAY;
}

/** A wrapper for the license mode and state, to allow atomically swapping. */
private static class Status {

    /** The current "mode" of the license (ie license type). */
    final OperationMode mode;

    /** True if the license is active, or false if it is expired. */
    final boolean active;

    Status(OperationMode mode, boolean active) {
        this.mode = mode;
        this.active = active;
    }
}

private final List<Runnable> listeners;
private final boolean isSecurityEnabled;
private final boolean isSecurityExplicitlyEnabled;

private Status status = new Status(OperationMode.TRIAL, true);
private boolean isSecurityEnabledByTrialVersion;

public XPackLicenseState(Settings settings) {
    this.listeners = new CopyOnWriteArrayList<>();
    this.isSecurityEnabled = XPackSettings.SECURITY_ENABLED.get(settings);
    // 6.0+ requires TLS for production licenses, so if TLS is enabled and security is enabled
    // we can interpret this as an explicit enabling of security if the security enabled
    // setting is not explicitly set
    this.isSecurityExplicitlyEnabled = isSecurityEnabled &&
            (settings.hasValue(XPackSettings.SECURITY_ENABLED.getKey()) ||
```
XPackSettings.TRANSPORT_SSL_ENABLED.get(settings));
    this.isSecurityEnabledByTrialVersion = false;
}

private XPackLicenseState(XPackLicenseState xPackLicenseState) {
    this.listeners = xPackLicenseState.listeners;
    this.isSecurityEnabled = xPackLicenseState.isSecurityEnabled;
    this.isSecurityExplicitlyEnabled = xPackLicenseState.isSecurityExplicitlyEnabled;
    this.status = xPackLicenseState.status;
    this.isSecurityEnabledByTrialVersion = xPackLicenseState.isSecurityEnabledByTrialVersion;
}

/**
 * Updates the current state of the license, which will change what features are available.
 *
 * @param mode   The mode (type) of the current license.
 * @param active True if the current license exists and is within its allowed usage period; false if it is expired or missing.
 * @param mostRecentTrialVersion If this cluster has, at some point commenced a trial, the most recent version on which they did that.
 *                              May be [@code null] if they have never generated a trial license on this cluster, or the most recent trial was prior to this metadata being tracked (6.1)
 */
void update(OperationMode mode, boolean active, @Nullable Version mostRecentTrialVersion) {
    synchronized (this) {
        status = new Status(mode, active);
        if (isSecurityEnabled == true && isSecurityExplicitlyEnabled == false && mode == OperationMode.TRIAL
            && isSecurityEnabledByTrialVersion == false) {
            // Before 6.3, Trial licenses would default having security enabled.
            // If this license was generated before that version, then treat it as if security is explicitly enabled
            if (mostRecentTrialVersion == null || mostRecentTrialVersion.before(Version.V_6_3_0)) {
                Loggers.getLogger(getClass()).info("Automatically enabling security for older trial license ([])",
                    mostRecentTrialVersion == null ? "[pre 6.1.0]" : mostRecentTrialVersion.toString());
                isSecurityEnabledByTrialVersion = true;
            }
        }
        listeners.forEach(Runnable::run);
    }
}

/** Add a listener to be notified on license change */
public void addListener(Runnable runnable) {
    listeners.add(Objects.requireNonNull(runnable));
}

/** Remove a listener */
public void removeListener(Runnable runnable) {

listeners.remove(runnable);
}

/** Return the current license type. */
public synchronized OperationMode getOperationMode() {
    return status.mode;
}

/** Return true if the license is currently within its time boundaries, false otherwise. */
public synchronized boolean isActive() {
    return status.active;
}

/**
 * @return true if authentication and authorization should be enabled. this does not indicate what realms are
 * available
 * @see #allowedRealmType() for the enabled realms
 */
public synchronized boolean isAuthAllowed() {
    OperationMode mode = status.mode;
    final boolean isSecurityCurrentlyEnabled =
        isSecurityEnabled(mode, isSecurityExplicitlyEnabled, isSecurityEnabledByTrialVersion, isSecurityEnabled);
    return isSecurityCurrentlyEnabled && (mode == OperationMode.STANDARD || mode ==
        OperationMode.GOLD
        || mode == OperationMode.PLATINUM || mode == OperationMode.TRIAL);
}

/**
 * @return true if IP filtering should be enabled
 */
public synchronized boolean isIpFilteringAllowed() {
    OperationMode mode = status.mode;
    final boolean isSecurityCurrentlyEnabled =
        isSecurityEnabled(mode, isSecurityExplicitlyEnabled, isSecurityEnabledByTrialVersion, isSecurityEnabled);
    return isSecurityCurrentlyEnabled && (mode == OperationMode.GOLD || mode ==
        OperationMode.PLATINUM || mode == OperationMode.TRIAL);
}

/**
 * @return true if auditing should be enabled
 */
public synchronized boolean isAuditingAllowed() {
    OperationMode mode = status.mode;
    final boolean isSecurityCurrentlyEnabled =
        isSecurityEnabled(mode, isSecurityExplicitlyEnabled, isSecurityEnabledByTrialVersion, isSecurityEnabled);
    return isSecurityCurrentlyEnabled && (mode == OperationMode.GOLD || mode ==
        OperationMode.PLATINUM || mode == OperationMode.TRIAL);
/**
 * Indicates whether the stats and health API calls should be allowed. If a license is expired and past the grace period then we deny these calls.
 * @return true if the license allows for the stats and health APIs to be used.
 */
public synchronized boolean isStatsAndHealthAllowed() {
    return status.active;
}

/**
 * Determine if Document Level Security (DLS) and Field Level Security (FLS) should be enabled.
 * <p>
 * DLS and FLS are only disabled when the mode is not:
 * <ul>
 * <li>{@link OperationMode#PLATINUM}</li>
 * <li>{@link OperationMode#TRIAL}</li>
 * </ul>
 * Note: This does not consider the state of the license so that Security does not suddenly leak information!
 * 
 * @return true to enable DLS and FLS. Otherwise false.
 */
public synchronized boolean isDocumentAndFieldLevelSecurityAllowed() {
    OperationMode mode = status.mode;
    final boolean isSecurityCurrentlyEnabled =
            isSecurityEnabled(mode, isSecurityExplicitlyEnabled, isSecurityEnabledByTrialVersion, isSecurityEnabled);
    return isSecurityCurrentlyEnabled && (mode == OperationMode.TRIAL || mode == OperationMode.PLATINUM);
}

/** Classes of realms that may be available based on the license type. */
public enum AllowedRealmType {
    NONE,
    NATIVE,
    DEFAULT,
    ALL
}

/**
 * @return the type of realms that are enabled based on the license
 */
public synchronized AllowedRealmType allowedRealmType() {
    final boolean isSecurityCurrentlyEnabled =
            isSecurityEnabled(status.mode, isSecurityExplicitlyEnabled, isSecurityEnabledByTrialVersion, isSecurityEnabled);
    if (isSecurityCurrentlyEnabled) {
        return
    }
switch (status.mode) {
    case PLATINUM:
        return AllowedRealmType.ALL;
    case TRIAL:
        return AllowedRealmType.ALL;
    case GOLD:
        return AllowedRealmType.DEFAULT;
    case STANDARD:
        return AllowedRealmType.NATIVE;
    default:
        return AllowedRealmType.NONE;
}
} else {
    return AllowedRealmType.NONE;
}

/**
 * @return whether custom role providers are allowed based on the license [*link OperationMode]*
 */
public synchronized boolean isCustomRoleProvidersAllowed() {
    final boolean isSecurityCurrentlyEnabled =
        isSecurityEnabled(status.mode, isSecurityExplicitlyEnabled, isSecurityEnabledByTrialVersion,
        isSecurityEnabled);
    return isSecurityCurrentlyEnabled && (status.mode == OperationMode.PLATINUM || status.mode ==
        OperationMode.TRIAL)
        && status.active;
}

/**
 * Determine if Watcher is available based on the current license.
 * <p>
 * Watcher is available if the license is active (hasn’t expired) and of one of the following types:
 * <ul>
 *     <li>*link OperationMode#STANDARD</li>
 *     <li>*link OperationMode#PLATINUM</li>
 *     <li>*link OperationMode#GOLD</li>
 *     <li>*link OperationMode#TRIAL</li>
 * </ul>
 * @return *code true* as long as the license is valid. Otherwise *code false*.
 */
public synchronized boolean isWatcherAllowed() {
    Status localStatus = status;
    if (localStatus.active == false) {
        return false;
    }
switch (localStatus.mode) {
    case TRIAL:
    case GOLD:
    case PLATINUM:
    case STANDARD:
        return true;
    default:
        return false;
}

/**
 * Monitoring is always available as long as there is a valid license
 * @return true if the license is active
 */
public synchronized boolean isMonitoringAllowed() {
    return status.active;
}

/**
 * Monitoring Cluster Alerts requires the equivalent license to use Watcher.
 * @return [ @link #isWatcherAllowed()]
 * @see #isWatcherAllowed()
 */
public synchronized boolean isMonitoringClusterAlertsAllowed() {
    return isWatcherAllowed();
}

/**
 * Determine if the current license allows the retention of indices to be modified.
 * Only users with a non-[ @link OperationMode#BASIC] license can update the retention period.
 * Note: This does not consider the <em>state</em> of the license so that any change is remembered for when they fix their license.
 * @return [ @code true] if the user is allowed to modify the retention. Otherwise [ @code false].
 */
public synchronized boolean isUpdateRetentionAllowed() {
    final OperationMode mode = status.mode;
    return mode != OperationMode.BASIC && mode != OperationMode.MISSING;
}

/**
 * Determine if Graph Exploration should be enabled.
 * <p>
* Exploration is only disabled when the license has expired or if the mode is not:
*  
*   <ul>
*     <li>{@link OperationMode#PLATINUM}</li>
*     <li>{@link OperationMode#TRIAL}</li>
*   </ul>

* @return [@code true] as long as the license is valid. Otherwise [@code false].
 */
public synchronized boolean isGraphAllowed() {
    Status localStatus = status;
    OperationMode operationMode = localStatus.mode;

    boolean licensed = operationMode == OperationMode.TRIAL || operationMode ==
    OperationMode.PLATINUM;

    return licensed && localStatus.active;
}

/**
* Determine if Machine Learning should be enabled.
* <p>
* Machine Learning is only disabled when the license has expired or if the
* mode is not:
* <ul>
*   <li>{@link OperationMode#PLATINUM}</li>
*   <li>{@link OperationMode#TRIAL}</li>
* </ul>
* </p>
* @return [@code true] as long as the license is valid. Otherwise
*         [@code false].
* */
public synchronized boolean isMachineLearningAllowed() {
    final Status currentStatus = status;
    final OperationMode operationMode = currentStatus.mode;

    final boolean licensed = operationMode == OperationMode.TRIAL || operationMode ==
    OperationMode.PLATINUM;

    return currentStatus.active && licensed;
}

/**
* Rollup is always available as long as there is a valid license
* *
* @return true if the license is active
* */
public synchronized boolean isRollupAllowed() {
    return status.active;
}
/**
 * Logstash is allowed as long as there is an active license of type TRIAL, STANDARD, GOLD or PLATINUM
 * @return { @code true} as long as there is a valid license
 */
public synchronized boolean isLogstashAllowed() {
    Status localStatus = status;
    if (localStatus.active == false) {
        return false;
    }
    switch (localStatus.mode) {
        case TRIAL:
        case GOLD:
        case PLATINUM:
        case STANDARD:
            return true;
        default:
            return false;
    }
}

/**
 * Deprecation APIs are always allowed as long as there is an active license
 * @return { @code true} as long as there is a valid license
 */
public synchronized boolean isDeprecationAllowed() {
    return status.active;
}

/**
 * Determine if Upgrade API should be enabled.
 * @return { @code true} as long as the license is valid. Otherwise
 * @code false
 */
public synchronized boolean isUpgradeAllowed() {
    // Should work on all active licenses
    return status.active;
}

/**
 * Determine if SQL support should be enabled.
 * @return { @code true} as long as the license is valid. Otherwise
 * @code false
 */
public synchronized boolean isSqlAllowed() {
    return status.active;
}
public synchronized boolean isSqlAllowed() {
    return status.active;
}

/**
 * Determine if JDBC support should be enabled.
 * <p>
 * JDBC is available only in for {@link OperationMode#PLATINUM} and {@link OperationMode#TRIAL} licences
 */
public synchronized boolean isJdbcAllowed() {
    Status localStatus = status;
    OperationMode operationMode = localStatus.mode;

    boolean licensed = operationMode == OperationMode.TRIAL || operationMode == OperationMode.PLATINUM;

    return licensed && localStatus.active;
}

public synchronized boolean isTrialLicense() {
    return status.mode == OperationMode.TRIAL;
}

/**
 * @return true if security is available to be used with the current license type
 */
public synchronized boolean isSecurityAvailable() {
    OperationMode mode = status.mode;
    return mode == OperationMode.GOLD || mode == OperationMode.PLATINUM || mode == OperationMode.STANDARD || mode == OperationMode.TRIAL;
}

/**
 * @return true if security has been disabled by a trial license which is the case of the default distribution post 6.3.0. The conditions necessary for this are:
 * <ul>
 *     <li>A trial license generated in 6.3.0+</li>
 *     <li>xpack.security.enabled not specified as a setting</li>
 * </ul>
 */
public synchronized boolean isSecurityDisabledByTrialLicense() {
    return status.mode == OperationMode.TRIAL && isSecurityEnabled && isSecurityExplicitlyEnabled == false && isSecurityEnabledByTrialVersion == false;
}
private static boolean isSecurityEnabled(final OperationMode mode, final boolean isSecurityExplicitlyEnabled,
final boolean isSecurityEnabledByTrialVersion, final boolean isSecurityEnabled) {
    return mode == OperationMode.TRIAL ? (isSecurityExplicitlyEnabled || isSecurityEnabledByTrialVersion) :
    isSecurityEnabled;
}

/**
 * Creates a copy of this object based on the state at the time the method was called. The
 * returned object will not be modified by a license update/expiration so it can be used to
 * make multiple method calls on the license state safely. This object should not be long
 * lived but instead used within a method when a consistent view of the license state
 * is needed for multiple interactions with the license state.
 */
public synchronized XPackLicenseState copyCurrentLicenseState() {
    return new XPackLicenseState(this);
}

package org.elasticsearch.license;

import org.apache.logging.log4j.Logger;
import org.apache.logging.log4j.message.ParameterizedMessage;
import org.elasticsearch.Version;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.ClusterStateUpdateTask;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.common.Nullable;
import org.elasticsearch.xpack.core.XPackPlugin;
import java.time.Clock;
import java.util.Collections;
import java.util.Map;
import java.util.UUID;

public class StartTrialClusterTask extends ClusterStateUpdateTask {

    private static final String ACKNOWLEDGEMENT_HEADER = "This API initiates a free 30-day trial for all
platinum features. " +
        "By starting this trial, you agree that it is subject to the terms and conditions at" +
        " https://www.elastic.co/legal/trial_license/. To begin your free trial, call /start_trial again and specify " +
        "the \"acknowledge=true\" parameter."
    ;

    private static final Map<String, String[]> ACK_MESSAGES = Collections.singletonMap("security",

new String[] { "With a trial license, X-Pack security features are available, but are not enabled by default." });

private final Logger logger;
private final String clusterName;
private final PostStartTrialRequest request;
private final ActionListener<PostStartTrialResponse> listener;
private final Clock clock;

StartTrialClusterTask(Logger logger, String clusterName, Clock clock, PostStartTrialRequest request, 
  ActionListener<PostStartTrialResponse> listener) {
  this.logger = logger;
  this.clusterName = clusterName;
  this.request = request;
  this.listener = listener;
  this.clock = clock;
}

@Override
public void clusterStateProcessed(String source, ClusterState oldState, ClusterState newState) {
  LicensesMetaData oldLicensesMetaData = oldState.metaData().custom(LicensesMetaData.TYPE);
  logger.debug("started self generated trial license: {}", oldLicensesMetaData);
  if (request.isAcknowledged() == false) {
    listener.onResponse(new PostStartTrialResponse(PostStartTrialResponse.Status.NEED_ACKNOWLEDGEMENT, 
      ACK_MESSAGES, ACKNOWLEDGEMENT_HEADER));
  } else if (oldLicensesMetaData == null || oldLicensesMetaData.isEligibleForTrial()) {
    listener.onResponse(new PostStartTrialResponse(PostStartTrialResponse.Status.UPGRADED_TO_TRIAL));
  } else {
    listener.onResponse(new PostStartTrialResponse(PostStartTrialResponse.Status.TRIAL_ALREADY_ACTIVATED));
  }
}

@Override
public ClusterState execute(ClusterState currentState) throws Exception {
  XPackPlugin.checkReadyForXPackCustomMetadata(currentState);
  LicensesMetaData currentLicensesMetaData = currentState.metaData().custom(LicensesMetaData.TYPE);
  if (request.isAcknowledged() == false) {
    return currentState;
  } else if (currentLicensesMetaData == null || currentLicensesMetaData.isEligibleForTrial()) {
    long issueDate = clock.millis();
    MetaData.Builder mdBuilder = MetaData.builder(currentState.metaData());
    long expiryDate = issueDate + 
      LicenseService.NON_BASIC_SELF_GENERATED_LICENSE_DURATION.getMillis();

    License.Builder specBuilder = License.builder()
License selfGeneratedLicense = SelfGeneratedLicense.create(specBuilder, currentState.nodes());
LicensesMetaData newLicensesMetaData = new LicensesMetaData(selfGeneratedLicense, Version.CURRENT);
mdBuilder.putCustom(LicensesMetaData.TYPE, newLicensesMetaData);
return ClusterState.builder(currentState).metaData(mdBuilder).build();
} else {
    return currentState;
}
}

@override
public void onFailure(String source, @Nullable Exception e) {
    logger.error(new ParameterizedMessage("unexpected failure during [{ }]", source), e);
    listener.onFailure(e);
}

/*
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 * or more contributor license agreements. Licensed under the Elastic License;
 * you may not use this file except in compliance with the Elastic License.
 */
package org.elasticsearch.license;

import org.elasticsearch.action.Action;
import org.elasticsearch.client.ElasticsearchClient;

public class PutLicenseAction extends Action<PutLicenseRequest, PutLicenseResponse,
    PutLicenseRequestBuilder> {

    public static final PutLicenseAction INSTANCE = new PutLicenseAction();
    public static final String NAME = "cluster:admin/xpack/license/put";

    private PutLicenseAction() {
        super(NAME);
    }

    @Override
    public PutLicenseResponse newResponse() {
        return new PutLicenseResponse();
    }

    @Override
    public PutLicenseResponse newResponse() {
        return new PutLicenseResponse();
    }

    @Override
public PutLicenseRequestBuilder newRequestBuilder(ElasticsearchClient client) {
    return new PutLicenseRequestBuilder(client, this);
}

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 * or more contributor license agreements. Licensed under the Elastic License;
 * you may not use this file except in compliance with the Elastic License.
 */
package org.elasticsearch.license;

import org.elasticsearch.action.Action;
import org.elasticsearch.client.ElasticsearchClient;

public class GetLicenseAction extends Action<GetLicenseRequest, GetLicenseResponse, GetLicenseRequestBuilder> {

    public static final GetLicenseAction INSTANCE = new GetLicenseAction();
    public static final String NAME = "cluster:monitor/xpack/license/get";

    private GetLicenseAction() {
        super(NAME);
    }

    @Override
    public GetLicenseResponse newResponse() {
        return new GetLicenseResponse();
    }

    @Override
    public GetLicenseRequestBuilder newRequestBuilder(ElasticsearchClient client) {
        return new GetLicenseRequestBuilder(client, this);
    }

    /*
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     * or more contributor license agreements. Licensed under the Elastic License;
     * you may not use this file except in compliance with the Elastic License.
     */
    package org.elasticsearch.license;

    import org.apache.logging.log4j.Logger;
    import org.apache.logging.log4j.message.ParameterizedMessage;
    import org.elasticsearch.Version;
    import org.elasticsearch.action.ActionListener;
    import org.elasticsearch.cluster.ClusterState;
    import org.elasticsearch.cluster.ClusterStateUpdateTask;
    import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.common.Nullable;
import org.elasticsearch.xpack.core.XPackPlugin;
import java.time.Clock;
import java.util.Collections;
import java.util.Map;
import java.util.UUID;
import java.util.concurrent.atomic.AtomicReference;

public class StartBasicClusterTask extends ClusterStateUpdateTask {

    private static final String ACKNOWLEDGEMENT_HEADER = "This license update requires acknowledgement. To acknowledge the license, " + "please read the following messages and call /start_basic again, this time with the \"acknowledge=true\" parameter:";

    private final Logger logger;
    private final String clusterName;
    private final PostStartBasicRequest request;
    private final ActionListener<PostStartBasicResponse> listener;
    private final Clock clock;
    private AtomicReference<Map<String, String[]>> ackMessages = new AtomicReference<>(Collections.emptyMap());

    StartBasicClusterTask(Logger logger, String clusterName, Clock clock, PostStartBasicRequest request, ActionListener<PostStartBasicResponse> listener) {
        this.logger = logger;
        this.clusterName = clusterName;
        this.request = request;
        this.listener = listener;
        this.clock = clock;
    }

    @Override
    public void clusterStateProcessed(String source, ClusterState oldState, ClusterState newState) {
        LicensesMetaData oldLicensesMetaData = oldState.metaData().custom(LicensesMetaData.TYPE);
        logger.debug("license prior to starting basic license: 
" + oldLicensesMetaData);
        License oldLicense = LicensesMetaData.extractLicense(oldLicensesMetaData);
        Map<String, String[]> acknowledgeMessages = ackMessages.get();
        if (acknowledgeMessages.isEmpty() == false) {
            listener.onResponse(new PostStartBasicResponse(PostStartBasicResponse.Status.NEED_ACKNOWLEDGEMENT, acknowledgeMessages, ACKNOWLEDGEMENT_HEADER));
        } else if (oldLicense != null && oldLicense.type().equals("basic")) {
            listener.onResponse(new PostStartBasicResponse(PostStartBasicResponse.Status.ALREADY_USING_BASIC));
        } else {
            listener.onResponse(new PostStartBasicResponse(PostStartBasicResponse.Status.GENERATED_BASIC));
        }
    }
}
@Override
public ClusterState execute(ClusterState currentState) throws Exception {
    XPackPlugin.checkReadyForXPackCustomMetadata(currentState);
    LicensesMetaData licensesMetaData = currentState.metaData().custom(LicensesMetaData.TYPE);
    License currentLicense = LicensesMetaData.extractLicense(licensesMetaData);
    if (currentLicense == null || currentLicense.type().equals("basic") == false) {
        long issueDate = clock.millis();
        MetaData.Builder mdBuilder = MetaData.builder(currentState.metaData());
        License.Builder specBuilder = License.builder()
            .uid(UUID.randomUUID().toString())
            .issuedTo(clusterName)
            .maxNodes(LicenseService.SELF_GENERATED_LICENSE_MAX_NODES)
            .issueDate(issueDate)
            .type("basic")
            .expiryDate(LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS);
        License selfGeneratedLicense = SelfGeneratedLicense.create(specBuilder, currentState.nodes());
        if (request.isAcknowledged() == false && currentLicense != null) {
            Map<String, String[]> ackMessages = LicenseService.getAckMessages(selfGeneratedLicense,
                currentLicense);
            if (ackMessages.isEmpty() == false) {
                this.ackMessages.set(ackMessages);
                return currentState;
            }
        }
        Version trialVersion = null;
        if (licensesMetaData != null) {
            trialVersion = licensesMetaData.getMostRecentTrialVersion();
        }
        LicensesMetaData newLicensesMetaData = new LicensesMetaData(selfGeneratedLicense, trialVersion);
        mdBuilder.putCustom(LicensesMetaData.TYPE, newLicensesMetaData);
        return ClusterState.builder(currentState).metaData(mdBuilder).build();
    } else {
        return currentState;
    }
}

@override
public void onFailure(String source, @Nullable Exception e) {
    logger.error(new ParameterizedMessage("unexpected failure during [{}]", source), e);
    listener.onFailure(e);
}

*/

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* or more contributor license agreements. Licensed under the Elastic License;
package org.elasticsearch.license;

import org.elasticsearch.action.ActionListener;
import org.elasticsearch.action.support.ActionFilters;
import org.elasticsearch.action.support.master.TransportMasterNodeAction;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.block.ClusterBlockException;
import org.elasticsearch.cluster.block.ClusterBlockLevel;
import org.elasticsearch.cluster.metadata.IndexNameExpressionResolver;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.inject.Inject;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.threadpool.ThreadPool;
import org.elasticsearch.transport.TransportService;

public class TransportPostStartBasicAction extends TransportMasterNodeAction<PostStartBasicRequest,
PostStartBasicResponse> {

    private final LicenseService licenseService;

    @Inject
    public TransportPostStartBasicAction(Settings settings, TransportService transportService, ClusterService
clusterService,
            LicenseService licenseService, ThreadPool threadPool, ActionFilters actionFilters,
            IndexNameExpressionResolver indexNameExpressionResolver) {
        super(settings, PostStartBasicAction.NAME, transportService, clusterService, threadPool, actionFilters,
indexNameExpressionResolver, PostStartBasicRequest::new);
        this.licenseService = licenseService;
    }

    @Override
    protected String executor() {
        return ThreadPool.Names.SAME;
    }

    @Override
    protected PostStartBasicResponse newResponse() {
        return new PostStartBasicResponse();
    }

    @Override
    protected void masterOperation(PostStartBasicRequest request, ClusterState state,
            ActionListener<PostStartBasicResponse> listener) throws Exception {
        licenseService.startBasicLicense(request, listener);
    }
}
@Override
protected ClusterBlockException checkBlock(PostStartBasicRequest request, ClusterState state) {
    return state.blocks().globalBlockedException(ClusterBlockLevel.METADATA_WRITE);
}
*/

package org.elasticsearch.license;
import org.elasticsearch.action.ActionRequestBuilder;
import org.elasticsearch.client.ElasticsearchClient;

class PostStartTrialRequestBuilder extends ActionRequestBuilder<PostStartTrialRequest,
PostStartTrialResponse, PostStartTrialRequestBuilder> {
  PostStartTrialRequestBuilder(ElasticsearchClient client, PostStartTrialAction action) {
    super(client, action, new PostStartTrialRequest());
  }

  public PostStartTrialRequestBuilder setAcknowledge(boolean acknowledge) {
    request.acknowledge(acknowledge);
    return this;
  }
}
*/

package org.elasticsearch.license;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.rest.RestController;
import org.elasticsearch.rest.RestRequest;
import org.elasticsearch.rest.action.RestToXContentListener;
import org.elasticsearch.xpack.core.XPackClient;
import org.elasticsearch.xpack.core.rest.XPackRestHandler;
import java.io.IOException;
import static org.elasticsearch.rest.RestRequest.Method.DELETE;

public class RestDeleteLicenseAction extends XPackRestHandler {
    public RestDeleteLicenseAction(Settings settings, RestController controller) {
      super(settings);
      import org.elasticsearch.license;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.rest.RestController;
import org.elasticsearch.rest.RestRequest;
import org.elasticsearch.rest.action.RestToXContentListener;
import org.elasticsearch.xpack.core.XPackClient;
import org.elasticsearch.xpack.core.rest.XPackRestHandler;
import java.io.IOException;
import static org.elasticsearch.rest.RestRequest.Method.DELETE;

public class RestDeleteLicenseAction extends XPackRestHandler {
    public RestDeleteLicenseAction(Settings settings, RestController controller) {
        super(settings);
    }
}
import org.elasticsearch.license.DeleteLicenseRequest;
import org.elasticsearch.license.BytesRef;
import org.elasticsearch.license.BytesRefIterator;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.core.internal.io.Streams;
import java.io.ByteArrayOutputStream;
import java.io.IOException;
import java.io.InputStream;
import java.nio.ByteBuffer;

// @deprecated Remove deprecations in 6.0
controller.registerWithDeprecatedHandler(DELETE, URI_BASE + "/license", this,
    DELETE, "/_license", deprecationLogger);

// Remove _licenses support entirely in 6.0
controller.registerAsDeprecatedHandler(DELETE, "/_licenses", this,
    "[DELETE /_licenses] is deprecated! Use " +
    "[DELETE /_xpack/license] instead.",
    deprecationLogger);
}

@Override
public String getName() {
    return "xpack_delete_license_action";
}

@Override
public RestChannelConsumer doPrepareRequest(final RestRequest request, final XPackClient client) throws IOException {
    DeleteLicenseRequest deleteLicenseRequest = new DeleteLicenseRequest();
    deleteLicenseRequest.timeout(request.paramAsTime("timeout", deleteLicenseRequest.timeout()));
    deleteLicenseRequest.masterNodeTimeout(request.paramAsTime("master_timeout",
        deleteLicenseRequest.masterNodeTimeout()));

    return channel -> client.es().admin().cluster().execute(DeleteLicenseAction.INSTANCE, deleteLicenseRequest,
        new RestToXContentListener<>(channel));
}

package org.elasticsearch.license;

import org.elasticsearch.core.internal.io.Streams;
import java.io.ByteArrayOutputStream;
import java.io.IOException;
import java.io.InputStream;
import java.nio.ByteBuffer;

import org.elasticsearch.license.DeleteLicenseRequest;
import org.elasticsearch.license.BytesRef;
import org.elasticsearch.license.BytesRefIterator;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentType;
import java.io.ByteArrayOutputStream;
import java.io.IOException;
import java.io.InputStream;
import java.nio.ByteBuffer;
import java.security.InvalidKeyException;
import java.security.NoSuchAlgorithmException;
import java.security.Signature;
import java.security.SignatureException;
import java.util.Arrays;
import java.util.Base64;
import java.util.Collections;

/**
 * Responsible for verifying signed licenses
 */
public class LicenseVerifier {

    /**
     * verifies the license content with the signature using the packaged
     * public key
     * @param license to verify
     * @return true if valid, false otherwise
     */
    public static boolean verifyLicense(final License license, byte[] publicKeyData) {
        byte[] signedContent = null;
        byte[] publicKeyFingerprint = null;
        try {
            byte[] signatureBytes = Base64.getDecoder().decode(license.signature());
            ByteBuffer byteBuffer = ByteBuffer.wrap(signatureBytes);
            int version = byteBuffer.getInt();
            int magicLen = byteBuffer.getInt();
            byte[] magic = new byte[magicLen];
            byteBuffer.get(magic);
            int hashLen = byteBuffer.getInt();
            publicKeyFingerprint = new byte[hashLen];
            byteBuffer.get(publicKeyFingerprint);
            int signedContentLen = byteBuffer.getInt();
            signedContent = new byte[signedContentLen];
            byteBuffer.get(signedContent);
            XContentBuilder contentBuilder = XContentFactory.contentBuilder(XContentType.JSON);
            license.toXContent(contentBuilder, new
            ToXContent.MapParams(Collections.singletonMap(License.LICENSE_SPEC_VIEW_MODE, "true")));
            Signature rsa = Signature.getInstance("SHA512withRSA");
            rsa.initVerify(CryptUtils.readPublicKey(publicKeyData));
            BytesRefIterator iterator = BytesReference.bytes(contentBuilder).iterator();
            BytesRef ref;
            while((ref = iterator.next()) != null) {
                rsa.update(ref.bytes, ref.offset, ref.length);
            }
            return rsa.verify(signedContent);
        } catch (IOException | NoSuchAlgorithmException | SignatureException | InvalidKeyException e) {
            throw new IllegalStateException(e);
        }
    }
}
public static boolean verifyLicense(final License license) {
    final byte[] publicKeyBytes;
    try (InputStream is = LicenseVerifier.class.getResourceAsStream("/public.key");) {
        ByteArrayOutputStream out = new ByteArrayOutputStream();
        Streams.copy(is, out);
        publicKeyBytes = out.toByteArray();
    } catch (IOException ex) {
        throw new IllegalStateException(ex);
    }
    return verifyLicense(license, publicKeyBytes);
}

public static boolean verifyLicense(final License license, final byte[] publicKeyBytes) {
    try (InputStream is = LicenseVerifier.class.getResourceAsStream("/content.key");) {
        ByteArrayOutputStream out = new ByteArrayOutputStream();
        Streams.copy(is, out);
        final byte[] signedContent = out.toByteArray();
        Arrays.fill(signedContent, (byte) 0);
    } finally {
        if (signedContent != null) {
            Arrays.fill(signedContent, (byte) 0);
        }
    } finally {
        if (publicKeyBytes != null) {
            Arrays.fill(publicKeyBytes, (byte) 0);
        }
    }

    final byte[] encryptedContent = encrypt(signedContent, publicKeyBytes);
    XContentParser parser = new XContentParser().createParser(new StringReader(XContentFactory.jsonBuilder().createString(string(encryptedContent))));
    XContentType xContentType = XContentType.JSON;
    XContentParser parser2 = parser.expect(XContentType.JSON, xContentType);  // Expecting JSON format
    try {
        parser2.expectObjectStart();
        parser2.expectKey("signature");
        parser2.expectValue(encryptedContent);
        parser2.expectKey("encrypted");
        parser2.expectValue(publicKeyBytes);
        parser2.expectEndObject();
    } finally {
        // Handling exceptions here...
    }
    return parser2.isClosed();
}

private static byte[] decrypt(byte[] data, byte[] key) {
    return decryptV3Format(data, key);
}

private static byte[] encrypt(byte[] data, byte[] key) {
    return encryptV3Format(data, key);
}

class SelfGeneratedLicense {

    // Constructor and methods related to SelfGeneratedLicense...
}

package org.elasticsearch.license;

import org.elasticsearch.cluster.node.DiscoveryNodes;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.xcontent.LoggingDeprecationHandler;
import org.elasticsearch.common.xcontent.NamedXContentRegistry;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentFactory;
import org.elasticsearch.common.xcontent.XContentParser;
import org.elasticsearch.common.xcontent.XContentType;
import java.io.IOException;
import java.nio.ByteBuffer;
import java.util.Base64;
import java.util.Collections;
import static org.elasticsearch.license.CryptUtils.encryptV3Format;
import static org.elasticsearch.license.CryptUtils.encrypt;
import static org.elasticsearch.license.CryptUtils.decryptV3Format;
import static org.elasticsearch.license.CryptUtils.decrypt;

class SelfGeneratedLicense {

    // Constructor and methods related to SelfGeneratedLicense...
}
public static License create(License.Builder specBuilder, DiscoveryNodes currentNodes) {
    return create(specBuilder, LicenseUtils.compatibleLicenseVersion(currentNodes));
}

public static License create(License.Builder specBuilder, int version) {
    License spec = specBuilder
        .issuer("elasticsearch")
        .version(version)
        .build();

    final String signature;
    try {
        XContentBuilder contentBuilder = XContentFactory.contentBuilder(XContentType.JSON);
        spec.toXContent(contentBuilder, new ToXContent.MapParams(Collections.singletonMap(License.LICENSE_SPEC_VIEW_MODE, "true")));
        byte[] encrypt;
        if (version < License.VERSION_CRYPTO_ALGORITHMS) {
            encrypt = encryptV3Format(BytesReference.toBytes(BytesReference.bytes(contentBuilder)));
        } else {
            encrypt = encrypt(BytesReference.toBytes(BytesReference.bytes(contentBuilder)));
        }
        byte[] bytes = new byte[4 + 4 + encrypt.length];
        ByteBuffer byteBuffer = ByteBuffer.wrap(bytes);
        // Set -version in signature
        byteBuffer.putInt(-version)
            .putInt(encrypt.length)
            .put(encrypt);
        signature = Base64.getEncoder().encodeToString(bytes);
    } catch (IOException e) {
        throw new IllegalStateException(e);
    }
    return License.builder().fromLicenseSpec(spec, signature).build();
}

public static boolean verify(final License license) {
    try {
        byte[] signatureBytes = Base64.getDecoder().decode(license.signature());
        ByteBuffer byteBuffer = ByteBuffer.wrap(signatureBytes);
        int version = byteBuffer.getInt();
        int contentLen = byteBuffer.getInt();
        byte[] content = new byte[contentLen];
        byteBuffer.get(content);
        final License expectedLicense;
        // Version in signature is -version, so check for -(-version) < 4
        byte[] decryptedContent = (-version < License.VERSION_CRYPTO_ALGORITHMS) ?
            decryptV3Format(content) : decrypt(content);
        // EMPTY is safe here because we don't call namedObject
        try (XContentParser parser = XContentFactory.xContent(XContentType.JSON)
            .createParser(NamedXContentRegistry.EMPTY, LoggingDeprecationHandler.INSTANCE,
            cowsay)) {
            parser.findMoreData();
            XContentParserUtils.copyContent(parser, BytesReference.bytes(decryptedContent));
            expectedLicense = LicenseUtils.create(decryptedContent);
            return expectedLicense.issuer().equals(spec.issuer())
                && expectedLicense.version() == version;
        }
    } catch (IOException e) {
        throw new IllegalStateException(e);
    }
}
decryptedContent)) {
    parser.nextToken();
    expectedLicense = License.builder().fromLicenseSpec(License.fromXContent(parser),
        license.signature()).version(-version).build();
}
return license.equals(expectedLicense);
} catch (IOException e) {
    throw new IllegalStateException(e);
}
}

public static boolean validSelfGeneratedType(String type) {
    return "basic".equals(type) || "trial".equals(type);
}

-package org.elasticsearch.license;

import org.elasticsearch.action.ActionListener;
import org.elasticsearch.action.support.ActionFilters;
import org.elasticsearch.action.support.master.TransportMasterNodeReadAction;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.block.ClusterBlockException;
import org.elasticsearch.cluster.block.ClusterBlockLevel;
import org.elasticsearch.cluster.metadata.IndexNameExpressionResolver;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.inject.Inject;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.threadpool.ThreadPool;
import org.elasticsearch.transport.TransportService;

public class TransportGetTrialStatusAction extends TransportMasterNodeReadAction<GetTrialStatusRequest, GetTrialStatusResponse> {
    
    @Inject
    public TransportGetTrialStatusAction(Settings settings, TransportService transportService, ClusterService clusterService,
            ThreadPool threadPool, ActionFilters actionFilters,
            IndexNameExpressionResolver indexNameExpressionResolver) {
        super(settings, GetTrialStatusAction.NAME, transportService, clusterService, threadPool, actionFilters,
            indexNameExpressionResolver, GetTrialStatusRequest::new);
    }

    @Override

    }
protected String executor() {
    return ThreadPool.Names.SAME;
}

@Override
protected GetTrialStatusResponse newResponse() {
    return new GetTrialStatusResponse();
}

@Override
protected void masterOperation(GetTrialStatusRequest request, ClusterState state,
                                ActionListener<GetTrialStatusResponse> listener) throws Exception {
    LicensesMetaData licensesMetaData = state.metaData().custom(LicensesMetaData.TYPE);
    listener.onResponse(new GetTrialStatusResponse(licensesMetaData == null ||
                   licensesMetaData.isEligibleForTrial()));
}

@Override
protected ClusterBlockException checkBlock(GetTrialStatusRequest request, ClusterState state) {
    return state.blocks().globalBlockedException(ClusterBlockLevel.METADATA_READ);
}

import org.elasticsearch.license.
import org.elasticsearch.common.logging.LoggerMessageFormat;
import org.elasticsearch.common.unit.TimeValue;
import java.util.UUID;

abstract class ExpirationCallback {

    static final String EXPIRATION_JOB_PREFIX = ".license_expiration_job_.";

    public enum Orientation {PRE, POST}

    /**
     * Callback that is triggered every <code>frequency</code> when
     * current time is between <code>max</code> and <code>min</code>
     * before license expiry.
     */
    public abstract static class Pre extends ExpirationCallback {

/**
 * Callback schedule prior to license expiry
 *
 * @param min       latest relative time to execute before license expiry
 * @param max       earliest relative time to execute before license expiry
 * @param frequency interval between execution
 */
Pre(TimeValue min, TimeValue max, TimeValue frequency) {
    super(Orientation.PRE, min, max, frequency);
}

/**
 * Callback that is triggered every <code>frequency</code> when
 * current time is between <code>min</code> and <code>max</code>
 * after license expiry.
 */
public abstract static class Post extends ExpirationCallback {

    /**
     * Callback schedule after license expiry
     *
     * @param min       earliest relative time to execute after license expiry
     * @param max       latest relative time to execute after license expiry
     * @param frequency interval between execution
     */
    Post(TimeValue min, TimeValue max, TimeValue frequency) {
        super(Orientation.POST, min, max, frequency);
    }

    private final String id;
    private final Orientation orientation;
    private final long min;
    private final long max;
    private final long frequency;

    private ExpirationCallback(Orientation orientation, TimeValue min, TimeValue max, TimeValue frequency) {
        this.orientation = orientation;
        this.min = (min == null) ? 0 : min.getMillis();
        this.max = (max == null) ? Long.MAX_VALUE : max.getMillis();
        this.frequency = frequency.getMillis();
        this.id = String.join(“”, EXPIRATION_JOB_PREFIX, UUID.randomUUID().toString());
    }

    public final String getId() {
        return id;
    }
public final long getFrequency() {
    return frequency;
}

/**
 * Calculates the delay for the next trigger time. When <code>now</code> is in a
 * valid time bracket with respect to <code>expirationDate</code>, the delay is 0.
 * When <code>now</code> is before the time bracket, than delay to the start of the
 * time bracket and when <code>now</code> is passed the valid time bracket, the delay
 * is <code>null</code>
 * @param expirationDate license expiry date in milliseconds
 * @param now current time in milliseconds
 * @return time delay
 */
final TimeValue delay(long expirationDate, long now) {
    final TimeValue delay;
    switch (orientation) {
        case PRE:
            if (expirationDate >= now) {
                // license not yet expired
                long preExpiryDuration = expirationDate - now;
                if (preExpiryDuration > max) {
                    // license duration is longer than maximum duration, delay it to the first match time
                    delay = TimeValue.timeValueMillis(preExpiryDuration - max);
                } else if (preExpiryDuration <= max && preExpiryDuration >= min) {
                    // no delay in valid time bracket
                    delay = TimeValue.timeValueMillis(0);
                } else {
                    // passed last match time
                    delay = null;
                }
            } else {
                // invalid after license expiry
                delay = null;
            }
            break;
        case POST:
            if (expirationDate >= now) {
                // license not yet expired, delay it to the first match time
                delay = TimeValue.timeValueMillis(expirationDate - now + min);
            } else {
                // license has expired
                long expiredDuration = now - expirationDate;
                if (expiredDuration < min) {
                    // license expiry duration is shorter than minimum duration, delay it to the first match time
                    delay = TimeValue.timeValueMillis(min - expiredDuration);
                } else if (expiredDuration >= min && expiredDuration <= max) {
                    // license expiry duration is longer than minimum duration, delay it to the first match time
                    delay = TimeValue.timeValueMillis(expirationDate - now + min);
                    break;
                } else {
                    // invalid after license expiry
                    delay = null;
                }
            }
            break;
    }
    return delay;
}
// no delay in valid time bracket
delay = TimeValue.timeValueMillis(0);
} else {
    // passed last match time
    delay = null;
}
break;
default:
    throw new IllegalArgumentException("orientation [" + orientation + "] unknown");
}
return delay;

/**
 * @link org.elasticsearch.xpack.core.scheduler.SchedulerEngine.Schedule#nextScheduledTimeAfter(long,
long)
 * with respect to license expiry date
 */
public final long nextScheduledTimeForExpiry(long expiryDate, long startTime, long time) {
    TimeValue delay = delay(expiryDate, time);
    if (delay != null) {
        long delayInMillis = delay.getMillis();
        if (delayInMillis == 0L) {
            if (startTime == time) {
                // initial trigger and in time bracket, schedule immediately
                return time;
            } else {
                // in time bracket, add frequency
                return time + frequency;
            }
        } else {
            // not in time bracket
            return time + delayInMillis;
        }
    }
    return -1;
}

/**
 * Code to execute when the expiry callback is triggered in a valid
 * time bracket
 * @param license license to operate on
 */
public abstract void on(License license);

public final String toString() {
    return LoggerMessageFormat.format(null, "ExpirationCallback:(orientation [{ }, min [{ }], max [{ }], freq
package org.elasticsearch.license;

import org.elasticsearch.ElasticsearchException;
import org.elasticsearch.Version;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.cluster.AckedClusterStateUpdateTask;
import org.elasticsearch.cluster.ClusterChangedEvent;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.ClusterStateListener;
import org.elasticsearch.cluster.ack.ClusterStateUpdateResponse;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.cluster.node.DiscoveryNode;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.component.AbstractLifecycleComponent;
import org.elasticsearch.common.component.Lifecycle;
import org.elasticsearch.common.joda.FormatDateTimeFormatter;
import org.elasticsearch.common.joda.Joda;
import org.elasticsearch.common.settings.Setting;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.discovery.DiscoveryModule;
import org.elasticsearch.env.Environment;
import org.elasticsearch.gateway.GatewayService;
import org.elasticsearch.protocol.xpack.XPackInfoResponse;
import org.elasticsearch.watcher.ResourceWatcherService;
import org.elasticsearch.xpack.core.XPackPlugin;
import org.elasticsearch.xpack.core.XPackSettings;
import org.elasticsearch.xpack.core.scheduler.SchedulerEngine;
import java.time.Clock;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collections;
import java.util.HashMap;
import java.util.HashSet;
import java.util.List;
import java.util.Locale;
import java.util.Map;
import java.util.Set;
import java.util.concurrent.atomic.AtomicReference;

/**
 * Service responsible for managing {LicensesMetaData}.
 * <p>
 * On the master node, the service handles updating the cluster state when a new license is registered.
 * It also listens on all nodes for cluster state updates, and updates {XPackLicenseState} when
 * the license changes are detected in the cluster state.
 */
public class LicenseService extends AbstractLifecycleComponent implements ClusterStateListener,
SchedulerEngine.Listener {

    public static final Setting<String> SELF_GENERATED_LICENSE_TYPE = new
Setting<"xpack.license.self_generated.type",
    (s) -> "basic", (s) -> {
        if (SelfGeneratedLicense.validSelfGeneratedType(s)) {
            return s;
        } else {
            throw new IllegalArgumentException("Illegal self generated license type [" + s + "]. Must be trial or basic.");
        }
    }, Setting.Property_NODE_SCOPE);

    // pkg private for tests
    static final TimeValue NON_BASIC_SELF_GENERATED_LICENSE_DURATION =
    TimeValue.timeValueHours(30 * 24);

    static final Set<String> VALID_TRIAL_TYPES = new HashSet<>(Arrays.asList("trial", "platinum", "gold"));

    /**
     * Duration of grace period after a license has expired
     */
    static final TimeValue GRACE_PERIOD_DURATION = days(7);

    public static final long BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS =
    XPackInfoResponse.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS;

    private final ClusterService clusterService;

    /**
     * The xpack feature state to update when license changes are made.
     */
    private final XPackLicenseState licenseState;

    /**
     * Currently active license
     */

private final AtomicReference<License> currentLicense = new AtomicReference<>();
private SchedulerEngine scheduler;
private final Clock clock;

/**
 * File watcher for operation mode changes
 */
private final OperationModeFileWatcher operationModeFileWatcher;

/**
 * Callbacks to notify relative to license expiry
 */
private List<ExpirationCallback> expirationCallbacks = new ArrayList<>();

/**
 * Max number of nodes licensed by generated trial license
 */
static final int SELF_GENERATED_LICENSE_MAX_NODES = 1000;

public static final String LICENSE_JOB = "licenseJob";

private static final FormatDateTimeFormatter DATE_FORMATTER = Joda.forPattern("EEEE, MMMMM dd, yyyy", Locale.ROOT);

private static final String ACKNOWLEDGEMENT_HEADER = "This license update requires acknowledgement. To acknowledge the license, " +
"please read the following messages and update the license again, this time with the "'acknowledge=true" parameter:";

public LicenseService(Settings settings, ClusterService clusterService, Clock clock, Environment env,
ResourceWatcherService resourceWatcherService, XPackLicenseState licenseState) {
    super(settings);
    this.clusterService = clusterService;
    this.clock = clock;
    this.scheduler = new SchedulerEngine(settings, clock);
    this.licenseState = licenseState;
    this.operationModeFileWatcher = new OperationModeFileWatcher(resourceWatcherService,
    XPackPlugin.resolveConfigFile(env, "license_mode"), logger,
    () -> updateLicenseState(getLicensesMetaData()));
    this.scheduler.register(this);
    populateExpirationCallbacks();
}

private void logExpirationWarning(long expirationMillis, boolean expired) {
    String expiredMsg = expired ? "expired" : "will expire";
    String general = LoggerMessageFormat.format(null, "License [{}] on [{}].
# If you have a new license, please update it. Otherwise, please reach out to
# your support contact.
" +
    "# your support contact:"

if (expired) {
    general = general.toUpperCase(Locale.ROOT);
}
StringBuilder builder = new StringBuilder(general);
builder.append(System.lineSeparator());
if (expired) {
    builder.append("# COMMERCIAL PLUGINS OPERATING WITH REDUCED FUNCTIONALITY");
} else {
    builder.append("# Commercial plugins operate with reduced functionality on license expiration:"");
}
XPackLicenseState.EXPIRATION_MESSAGES.forEach((feature, messages) -> {
    if (messages.length > 0) {
        builder.append(System.lineSeparator());
        builder.append("# - ");
        builder.append(feature);
        for (String message : messages) {
            builder.append(System.lineSeparator());
            builder.append("#  - ");
            builder.append(message);
        }
    }
});
logger.warn("{}", builder);

private void populateExpirationCallbacks() {
    expirationCallbacks.add(new ExpirationCallback.Pre(days(7), days(25), days(1)) {
        @Override
        public void on(License license) {
            logExpirationWarning(license.expiryDate(), false);
        }
    });
    expirationCallbacks.add(new ExpirationCallback.Pre(days(0), days(7), TimeValue.timeValueMinutes(10)) {
        @Override
        public void on(License license) {
            logExpirationWarning(license.expiryDate(), false);
        }
    });
    expirationCallbacks.add(new ExpirationCallback.Post(days(0), null, TimeValue.timeValueMinutes(10)) {
        @Override
        public void on(License license) {
            // logged when grace period begins
            logExpirationWarning(license.expiryDate(), true);
        }
    });
}
/**
 * Registers new license in the cluster
 * Master only operation. Installs a new license on the master provided it is VALID
 */

public void registerLicense(final PutLicenseRequest request, final ActionListener<PutLicenseResponse> listener) {
    final License newLicense = request.license();
    final long now = clock.millis();
    if (!LicenseVerifier.verifyLicense(newLicense) || newLicense.issueDate() > now || newLicense.startDate() > now) {
        listener.onResponse(new PutLicenseResponse(true, LicensesStatus.INVALID));
    } else if (newLicense.type().equals("basic")) {
        listener.onFailure(new IllegalArgumentException("Registering basic licenses is not allowed.");
    } else if (newLicense.expiryDate() < now) {
        listener.onResponse(new PutLicenseResponse(true, LicensesStatus.EXPIRED));
    } else {
        if (!request.acknowledged()) {
            // TODO: ack messages should be generated on the master, since another node's cluster state may be behind...
            final License currentLicense = getLicense();
            if (currentLicense != null) {
                Map<String, String[]> acknowledgeMessages = getAckMessages(newLicense, currentLicense);
                if (acknowledgeMessages.isEmpty() == false) {
                    // needs acknowledgement
                    listener.onResponse(new PutLicenseResponse(false, LicensesStatus.VALID,
                        ACKNOWLEDGEMENT_HEADER,
                        acknowledgeMessages));
                }
            }
        }
    }
}

if (XPackSettings.FIPS_MODE_ENABLED.get(settings) && newLicense.operationMode() != License.OperationMode.PLATINUM
    && newLicense.operationMode() != License.OperationMode.TRIAL) {
    throw new IllegalStateException("Cannot install a "] + newLicense.operationMode() + "] license unless FIPS mode is disabled");
} else if (XPackSettings.FIPS_MODE_ENABLED.get(settings) &&
    newLicense.operationMode() != License.OperationMode.PLATINUM
    && newLicense.operationMode() != License.OperationMode.TRIAL) {
    throw new IllegalStateException("Cannot install a "] + newLicense.operationMode() + "] license unless FIPS mode is disabled");
}
clusterService.submitStateUpdateTask("register license "+ newLicense.uid() + "");
    }

    @Override
    protected PutLicenseResponse newResponse(boolean acknowledged) {
        return new PutLicenseResponse(acknowledged, LicensesStatus.VALID);
    }

    @Override
    public ClusterState execute(ClusterState currentState) throws Exception {
        XPackPlugin.checkReadyForXPackCustomMetadata(currentState);
        MetaData currentMetadata = currentState.metaData();
        LicensesMetaData licensesMetaData = currentMetadata.custom(LicensesMetaData.TYPE);
        Version trialVersion = null;
        if (licensesMetaData != null) {
            trialVersion = licensesMetaData.getMostRecentTrialVersion();
        }
        MetaData.Builder mdBuilder = MetaData.builder(currentMetadata);
        mdBuilder.putCustom(LicensesMetaData.TYPE, new LicensesMetaData(newLicense, trialVersion));
        return ClusterState.builder(currentState).metaData(mdBuilder).build();
    }

    public static Map<String, String[]> getAckMessages(License newLicense, License currentLicense) {
        Map<String, String[]> acknowledgeMessages = new HashMap<>();
        if (!License.isAutoGeneratedLicense(currentLicense.signature()) && currentLicense.issueDate() > newLicense.issueDate()) {
            acknowledgeMessages.put("license", new String[]{
                "The new license is older than the currently installed license. " +
                "Are you sure you want to override the current license?"
            });
        }
        XPackLicenseState.ACKNOWLEDGMENT_MESSAGES.forEach((feature, ackMessages) -> {
            String[] messages = ackMessages.apply(currentLicense.operationMode(), newLicense.operationMode());
            if (messages.length > 0) {
                acknowledgeMessages.put(feature, messages);
            }
        });
        return acknowledgeMessages;
    }

    private static TimeValue days(int days) {
        return TimeValue.timeValueHours(days * 24);
    }
@Override
c
public void triggered(SchedulerEngine.Event event) {
    
    final LicensesMetaDataSet licensesMetaDataSet = getLicensesMetaDataSet();
    if (licensesMetaDataSet != null) {
        final License license = licensesMetaDataSet.getLicense();
        if (event.getJobName().equals(LICENSE_JOB)) {
            updateLicenseState(license, licensesMetaDataSet.getMostRecentTrialVersion());
        } else if (event.getJobName().startsWith(ExpirationCallback.EXPIRATION_JOB_PREFIX)) {
            expirationCallbacks.stream()
                .filter(expirationCallback -> expirationCallback.getId().equals(event.getJobName()))
                .forEach(expirationCallback -> expirationCallback.on(license));
        }
    }
}

/**
 * Remove license from the cluster state metadata
 */

public void removeLicense(final DeleteLicenseRequest request, final ActionListener<ClusterStateUpdateResponse> listener) {
    
    clusterService.submitStateUpdateTask("delete license",
        new AckedClusterStateUpdateTask<ClusterStateUpdateResponse>(request, listener) {
            @Override
            protected ClusterStateUpdateResponse newResponse(boolean acknowledged) {
                return new ClusterStateUpdateResponse(acknowledged);
            }

            @Override
            public ClusterState execute(ClusterState currentState) throws Exception {
                MetaData metaData = currentState.metaData();
                final LicensesMetaDataSet currentLicenses = metaData.custom(LicensesMetaDataSet.TYPE);
                if (currentLicenses.getLicense() != LicensesMetaDataSet.LICENSE_TOMBSTONE) {
                    MetaData.Builder mdBuilder = MetaData.builder(currentState.metaData());
                    LicensesMetaDataSet newMetadata = new LicensesMetaDataSet(LicensesMetaDataSet.LICENSE_TOMBSTONE,
                        currentLicenses.getMostRecentTrialVersion());
                    mdBuilder.putCustom(LicensesMetaDataSet.TYPE, newMetadata);
                    return ClusterState.builder(currentState).metaData(mdBuilder).build();
                } else {
                    return currentState;
                }
        });
    }
}

public License getLicense() {
    
    final License license = getLicense(clusterService.state().metaData());
}
return license == LicensesMetaData.LICENSE_TOMBSTONE ? null : license;
}

private LicensesMetaData getLicensesMetaData() {
    return this.clusterService.state().metaData().custom(LicensesMetaData.TYPE);
}

void startTrialLicense(PostStartTrialRequest request, final ActionListener<PostStartTrialResponse> listener) {
    if (!VALID_TRIAL_TYPES.contains(request.getType())) {
        throw new IllegalArgumentException("Cannot start trial of type ", + request.getType() + ". Valid trial types are 
+ VALID_TRIAL_TYPES + ");
    }
    StartTrialClusterTask task = new StartTrialClusterTask(logger, clusterService.getClusterName().value(), clock,
request, listener);
    clusterService.submitStateUpdateTask("started trial license", task);
}

void startBasicLicense(PostStartBasicRequest request, final ActionListener<PostStartBasicResponse> listener) {
    StartBasicClusterTask task = new StartBasicClusterTask(logger, clusterService.getClusterName().value(),
clock, request, listener);
    clusterService.submitStateUpdateTask("start basic license", task);
}

/**
 * Master-only operation to generate a one-time global self generated license.
 * The self generated license is only generated and stored if the current cluster state metadata
 * has no existing license. If the cluster currently has a basic license that has an expiration date,
 * a new basic license with no expiration date is generated.
 */
private void registerOrUpdateSelfGeneratedLicense() {
    clusterService.submitStateUpdateTask("maybe generate license for cluster",
        new StartupSelfGeneratedLicenseTask(settings, clock, clusterService));
}

@Override
protected void doStart() throws ElasticsearchException {
    clusterService.addListener(this);
    scheduler.start(Collections.emptyList());
    logger.debug("initializing license state");
    if (clusterService.lifecycleState() == Lifecycle.State.STARTED) {
        final ClusterState clusterState = clusterService.state();
        if (!clusterState.blocks().hasGlobalBlock(GatewayService.STATE_NOT_RECOVERED_BLOCK) &&
            clusterState.nodes().getMasterNode() != null &&
            XPackPlugin.isReadyForXPackCustomMetadata(clusterState)) {
            final LicensesMetaData currentMetaData = clusterState.metaData().custom(LicensesMetaData.TYPE);
            boolean noLicense = currentMetaData == null || currentMetaData.getLicense() == null;
if (clusterState.getNodes().isLocalNodeElectedMaster() &&
    (noLicense || LicenseUtils.licenseNeedsExtended(currentMetaData.getLicense()))) {
    // triggers a cluster changed event eventually notifying the current licensee
    registerOrUpdateSelfGeneratedLicense();
}
}
}
}

@Override
protected void doStop() throws ElasticsearchException {
    clusterService.removeListener(this);
    scheduler.stop();
    // clear current license
    currentLicense.set(null);
}

@Override
protected void doClose() throws ElasticsearchException {
}

/**
 * When there is no global block on 
 * org.elasticsearch.gateway.GatewayService#STATE_NOT_RECOVERED_BLOCK
 * notify licensees and issue auto-generated license if no license has been installed/issued yet.
 */
@Override
public void clusterChanged(ClusterChangedEvent event) {
    final ClusterState previousClusterState = event.previousState();
    final ClusterState currentClusterState = event.state();
    if (!currentClusterState.blocks().hasGlobalBlock(GatewayService.STATE_NOT_RECOVERED_BLOCK)) {
        if (!XPackPlugin.isReadyForXPackCustomMetadata(currentClusterState)) {
            logger.debug("cannot add license to cluster as the following nodes might not understand the license
metadata: {}", () -> XPackPlugin.nodesNotReadyForXPackCustomMetadata(currentClusterState));
            return;
        }
    }
    final LicensesMetaData prevLicensesMetaData = previousClusterState.getMetaData().custom(LicensesMetaData.TYPE);
    final LicensesMetaData currentLicensesMetaData = currentClusterState.getMetaData().custom(LicensesMetaData.TYPE);
    if (logger.isDebugEnabled()) {
        logger.debug("previous [{}]", prevLicensesMetaData);
        logger.debug("current [{}]", currentLicensesMetaData);
    }
    // notify all interested plugins
    if (previousClusterState.blocks().hasGlobalBlock(GatewayService.STATE_NOT_RECOVERED_BLOCK)) {
License currentLicense = null;

boolean noLicenseInPrevMetadata = prevLicensesMetaData == null || prevLicensesMetaData.getLicense() == null;

if (noLicenseInPrevMetadata == false) {
    currentLicense = prevLicensesMetaData.getLicense();
}

boolean noLicenseInCurrentMetadata = (currentLicensesMetaData == null || currentLicensesMetaData.getLicense() == null);

if (noLicenseInCurrentMetadata == false) {
    currentLicense = currentLicensesMetaData.getLicense();
}

boolean noLicense = noLicenseInPrevMetadata && noLicenseInCurrentMetadata;
// auto-generate license if no licenses ever existed or if the current license is basic and
// needs extended or if the license signature needs to be updated. this will trigger a subsequent cluster changed event

if (currentClusterState.getNodes().isLocalNodeElectedMaster() &&
    (noLicense || LicenseUtils.licenseNeedsExtended(currentLicense) ||
    LicenseUtils.signatureNeedsUpdate(currentLicense, currentClusterState.nodes()))) {
    registerOrUpdateSelfGeneratedLicense();
}
} else if (logger.isDebugEnabled()) {
    logger.debug("skipped license notifications reason: [{}],", GatewayService.STATE_NOT_RECOVERED_BLOCK);
}
}

private void updateLicenseState(LicensesMetaData licensesMetaData) {
    if (licensesMetaData != null) {
        updateLicenseState(getLicense(licensesMetaData), licensesMetaData.getMostRecentTrialVersion());
    }
}

protected void updateLicenseState(final License license, Version mostRecentTrialVersion) {
    if (license == LicensesMetaData.LICENSE_TOMBSTONE) {
        // implies license has been explicitly deleted
        licenseState.update(License.OperationMode.MISSING, false, mostRecentTrialVersion);
        return;
    }
    if (license != null) {
long time = clock.millis();
boolean active;
if (license.expiryDate() == BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS) {
    active = true;
} else {
    // We subtract the grace period from the current time to avoid overflowing on an expiration
    // date that is near Long.MAX_VALUE
    active = time >= license.issueDate() && time - GRACE_PERIOD_DURATION.getMillis() < license.expiryDate();
}
licenseState.update(license.operationMode(), active, mostRecentTrialVersion);

if (active) {
    if (time < license.expiryDate()) {
        logger.debug("license [{ }] - valid", license.uid());
    } else {
        logger.warn("license [{ }] - grace", license.uid());
    }
} else {
    logger.warn("license [{ }] - expired", license.uid());
}

/**
 * Notifies registered licensees of license state change and/or new active license
 * based on the license in <code>currentLicensesMetaData</code>.
 * Additionally schedules license expiry notifications and event callbacks
 * relative to the current license's expiry
 */
private void onUpdate(final LicensesMetaData currentLicensesMetaData) {
    License license = getLicense(currentLicensesMetaData);
    // license can be null if the trial license is yet to be auto-generated
    // in this case, it is a no-op
    if (license != null) {
        final License previousLicense = currentLicense.get();
        if (license.equals(previousLicense) == false) {
            currentLicense.set(license);
            license.setOperationModeFileWatcher(operationModeFileWatcher);
            scheduler.add(new SchedulerEngine.Job(LICENSE_JOB, nextLicenseCheck(license)));
            for (ExpirationCallback expirationCallback : expirationCallbacks) {
                scheduler.add(new SchedulerEngine.Job(expirationCallback.getId(),
                        (startTime, now) ->
                                expirationCallback.nextScheduledTimeForExpiry(license.expiryDate(), startTime, now)));
            }
            if (previousLicense != null) {
                // remove operationModeFileWatcher to gc the old license object
                previousLicense.removeOperationModeFileWatcher();
            }
        }
    }
}
logger.info("license [{ }] mode [{ }] - valid", license.uid(),
    license.operationMode().name().toLowerCase(Locale.ROOT));
}
updateLicenseState(license, currentLicensesMetaData.getMostRecentTrialVersion());
}

// pkg private for tests
static SchedulerEngine.Schedule nextLicenseCheck(License license) {
    return (startTime, time) -> {
        if (time < license.issueDate()) {
            // when we encounter a license with a future issue date
            // which can happen with autogenerated license,
            // we want to schedule a notification on the license issue date
            // so the license is notified once it is valid
            // see https://github.com/elastic/x-plugins/issues/983
            return license.issueDate();
        } else if (time < license.expiryDate()) {
            return license.expiryDate();
        } else if (time < license.expiryDate() + GRACE_PERIOD_DURATION.getMillis()) {
            return license.expiryDate() + GRACE_PERIOD_DURATION.getMillis();
        }
        return -1; // license is expired, no need to check again
    };
}

public static License getLicense(final MetaData metaData) {
    final LicensesMetaData licensesMetaData = metaData.custom(LicensesMetaData.TYPE);
    return getLicense(licensesMetaData);
}

static License getLicense(final LicensesMetaData metaData) {
    if (metaData != null) {
        License license = metaData.getLicense();
        if (license == LicensesMetaData.LICENSE_TOMBSTONE) {
            return license;
        } else if (license != null) {
            boolean autoGeneratedLicense = License.isAutoGeneratedLicense(license.signature());
            if ((autoGeneratedLicense && SelfGeneratedLicense.verify(license))
                || (!autoGeneratedLicense && LicenseVerifier.verifyLicense(license))) {
                return license;
            }
        }
    }
    return null;
}
private static boolean isProductionMode(Settings settings, DiscoveryNode localNode) {
    final boolean singleNodeDisco = "single-node".equals(DiscoveryModule.DISCOVERY_TYPE_SETTING.get(settings));
    return singleNodeDisco == false && isBoundToLoopback(localNode) == false;
}

private static boolean isBoundToLoopback(DiscoveryNode localNode) {
    return localNode.getAddress().address().getAddress().isLoopbackAddress();
}

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*/
package org.elasticsearch.license;

import org.elasticsearch.action.support.master.AcknowledgedRequestBuilder;
import org.elasticsearch.client.ElasticsearchClient;
public class DeleteLicenseRequestBuilder extends AcknowledgedRequestBuilder<DeleteLicenseRequest,
DeleteLicenseResponse,
DeleteLicenseRequestBuilder> {

    public DeleteLicenseRequestBuilder(ElasticsearchClient client) {
        this(client, DeleteLicenseAction.INSTANCE);
    }

    public DeleteLicenseRequestBuilder(ElasticsearchClient client, DeleteLicenseAction action) {
        super(client, action, new DeleteLicenseRequest());
    }
}

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* or more contributor license agreements. Licensed under the Elastic License;
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*/
package org.elasticsearch.license;

import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.rest.BytesRestResponse;
import org.elasticsearch.rest.RestController;
import org.elasticsearch.rest.RestRequest;
import org.elasticsearch.rest.RestResponse;
import org.elasticsearch.rest.action.RestBuilderListener;
import org.elasticsearch.xpack.core.XPackClient;
import org.elasticsearch.xpack.core.rest.XPackRestHandler;

import java.io.IOException;
import static org.elasticsearch.rest.RestRequest.Method.POST;

public class RestPostStartBasicLicense extends XPackRestHandler {

    RestPostStartBasicLicense(Settings settings, RestController controller) {
        super(settings);
        controller.registerHandler(POST, URI_BASE + "/license/start_basic", this);
    }

    @Override
    protected RestChannelConsumer doPrepareRequest(RestRequest request, XPackClient client) throws IOException {
        PostStartBasicRequest startBasicRequest = new PostStartBasicRequest();
        startBasicRequest.acknowledge(request.paramAsBoolean("acknowledge", false));
        startBasicRequest.timeout(request.paramAsTime("timeout", startBasicRequest.timeout()));
        startBasicRequest.masterNodeTimeout(request.paramAsTime("master_timeout",
                startBasicRequest.masterNodeTimeout()));
        return channel -> client.licensing().postStartBasic(startBasicRequest, new
                RestBuilderListener<PostStartBasicResponse>(channel) {
                    @Override
                    public RestResponse buildResponse(PostStartBasicResponse response, XContentBuilder builder) throws
                            Exception {
                        PostStartBasicResponse.Status status = response.getStatus();
                        response.toXContent(builder, ToXContent.EMPTY_PARAMS);
                        return new BytesRestResponse(status.getRestStatus(), builder);
                    }
                });
    }

    @Override
    public String getName() {
        return "xpack_start_basic_action";
    }

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     */
package org.elasticsearch.license;
import org.elasticsearch.action.ActionRequestBuilder;
import org.elasticsearch.client.ElasticsearchClient;
class GetBasicStatusRequestBuilder extends ActionRequestBuilder<GetBasicStatusRequest,
GetBasicStatusResponse,
GetBasicStatusRequestBuilder> {
GetBasicStatusRequestBuilder(ElasticsearchClient client, GetBasicStatusAction action) {
super(client, action, new GetBasicStatusRequest());
}
}
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* or more contributor license agreements. Licensed under the Elastic License;
* you may not use this file except in compliance with the Elastic License.
*/
package org.elasticsearch.license;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.rest.BytesRestResponse;
import org.elasticsearch.rest.RestController;
import org.elasticsearch.rest.RestRequest;
import org.elasticsearch.rest.RestResponse;
import org.elasticsearch.rest.RestStatus;
import org.elasticsearch.rest.action.RestBuilderListener;
import org.elasticsearch.xpack.core.XPackClient;
import org.elasticsearch.xpack.core.rest.XPackRestHandler;
import java.io.IOException;
import static org.elasticsearch.rest.RestRequest.Method.GET;
public class RestGetBasicStatus extends XPackRestHandler {
RestGetBasicStatus(Settings settings, RestController controller) {
super(settings);
controller.registerHandler(GET, URI_BASE + "/license/basic_status", this);
}
@Override
protected RestChannelConsumer doPrepareRequest(RestRequest request, XPackClient client) throws IOException
{
return channel -> client.licensing().prepareGetStartBasic().execute(
new RestBuilderListener<GetBasicStatusResponse>(channel) {
@Override

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public RestResponse buildResponse(GetBasicStatusResponse response, XContentBuilder builder) throws Exception {
    builder.startObject();
    builder.field("eligible_to_start_basic", response.isEligibleToStartBasic());
    builder.endObject();
    return new BytesRestResponse(RestStatus.OK, builder);
}

@Override
public String getName() {
    return "xpack_basic_status_action";
}

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* or more contributor license agreements. Licensed under the Elastic License;
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*/
package org.elasticsearch.license;

import org.elasticsearch.action.ActionRequestValidationException;
import org.elasticsearch.action.ValidateActions;
import org.elasticsearch.action.support.master.AcknowledgedRequest;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import org.elasticsearch.common.xcontent.XContentType;
import java.io.IOException;

public class PutLicenseRequest extends AcknowledgedRequest<PutLicenseRequest> {

    private License license;
    private boolean acknowledge = false;

    public PutLicenseRequest() {
    }

    @Override
    public ActionRequestValidationException validate() {
        return (license == null) ? ValidateActions.addValidationError("license is missing", null) : null;
    }

    /**
    * Parses license from json format to an instance of [ @link License]
    */

```
* @param licenseDefinition licenses definition
* @param xContentType the content type of the license
*/
public PutLicenseRequest license(BytesReference licenseDefinition, XContentType xContentType) {
  try {
    return license(License.fromSource(licenseDefinition, xContentType));
  } catch (IOException e) {
    throw new IllegalArgumentException("failed to parse license source", e);
  }
}

public PutLicenseRequest license(License license) {
  this.license = license;
  return this;
}

public License license() {
  return license;
}

public PutLicenseRequest acknowledge(boolean acknowledge) {
  this.acknowledge = acknowledge;
  return this;
}

public boolean acknowledged() {
  return acknowledge;
}

@Override
public void readFrom(StreamInput in) throws IOException {
  super.readFrom(in);
  license = License.readLicense(in);
  acknowledge = in.readBoolean();
}

@Override
public void writeTo(StreamOutput out) throws IOException {
  super.writeTo(out);
  license.writeTo(out);
  out.writeBoolean(acknowledge);
}

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 * or more contributor license agreements. Licensed under the Elastic License;
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 */
```
package org.elasticsearch.license;

import org.elasticsearch.action.Action;
import org.elasticsearch.client.ElasticsearchClient;

public class PostStartBasicAction extends Action<PostStartBasicRequest, PostStartBasicResponse, PostStartBasicRequestBuilder> {

    public static final PostStartBasicAction INSTANCE = new PostStartBasicAction();
    public static final String NAME = "cluster:admin/xpack/license/start_basic";

    private PostStartBasicAction() {
        super(NAME);
    }

    @Override
    public PostStartBasicRequestBuilder newRequestBuilder(ElasticsearchClient client) {
        return new PostStartBasicRequestBuilder(client, this);
    }

    @Override
    public PostStartBasicResponse newResponse() {
        return new PostStartBasicResponse();
    }
}

package org.elasticsearch.license;

import org.elasticsearch.action.ActionRequestValidationException;
import org.elasticsearch.action.support.master.AcknowledgedRequest;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import java.io.IOException;

public class PostStartBasicRequest extends AcknowledgedRequest<PostStartBasicRequest> {

    private boolean acknowledge = false;

    @Override
    public ActionRequestValidationException validate() {
        return null;
    }
}

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 */

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import org.elasticsearch.action.ActionRequestValidationException;
import org.elasticsearch.action.support.master.AcknowledgedRequest;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import java.io.IOException;

public class PostStartBasicRequest extends AcknowledgedRequest<PostStartBasicRequest> {

    private boolean acknowledge = false;

    @Override
    public ActionRequestValidationException validate() {
        return null;
    }
}
public PostStartBasicRequest acknowledge(boolean acknowledge) {
    this.acknowledge = acknowledge;
    return this;
}

public boolean isAcknowledged() {
    return acknowledge;
}

@Override
public void readFrom(StreamInput in) throws IOException {
    super.readFrom(in);
    acknowledge = in.readBoolean();
}

@Override
public void writeTo(StreamOutput out) throws IOException {
    super.writeTo(out);
    out.writeBoolean(acknowledge);
}

package org.elasticsearch.license;

import org.elasticsearch.action.ActionResponse;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import java.io.IOException;

class GetBasicStatusResponse extends ActionResponse {

    private boolean eligibleToStartBasic;

    GetBasicStatusResponse() {
    }

    GetBasicStatusResponse(boolean eligibleToStartBasic) {
        this.eligibleToStartBasic = eligibleToStartBasic;
    }

    boolean isEligibleToStartBasic() {
        return eligibleToStartBasic;
    }

    /*
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     * or more contributor license agreements. Licensed under the Elastic License;
     * you may not use this file except in compliance with the Elastic License.
     */
    import org.elasticsearch.action.ActionResponse;
    import org.elasticsearch.common.io.stream.StreamInput;
    import org.elasticsearch.common.io.stream.StreamOutput;
    import java.io.IOException;
    class GetBasicStatusResponse extends ActionResponse {

        private boolean eligibleToStartBasic;

        GetBasicStatusResponse() {
        }

        GetBasicStatusResponse(boolean eligibleToStartBasic) {
            this.eligibleToStartBasic = eligibleToStartBasic;
        }

        boolean isEligibleToStartBasic() {
            return eligibleToStartBasic;
        }
    }
@Override
public void readFrom(StreamInput in) throws IOException {
    eligibleToStartBasic = in.readBoolean();
}

@Override
public void writeTo(StreamOutput out) throws IOException {
    out.writeBoolean(eligibleToStartBasic);
}

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*/
package org.elasticsearch.license;

import org.elasticsearch.common.joda.FormatDateTimeFormatter;
import org.elasticsearch.common.joda.Joda;
import org.joda.time.MutableDateTime;
import org.joda.time.format.DateTimeFormatter;
import org.joda.time.format.ISODateTimeFormat;

public class DateUtils {

    private static final FormatDateTimeFormatter formatDateOnlyFormatter = Joda.forPattern("yyyy-MM-dd");
    private static final DateTimeFormatter dateOnlyFormatter = formatDateOnlyFormatter.parser().withZoneUTC();
    private static final DateTimeFormatter dateTimeFormatter = ISODateTimeFormat.dateTime().withZoneUTC();

    public static long endOfTheDay(String date) {
        try {
            // Try parsing using complete date/time format
            return dateTimeFormatter.parseDateTime(date).getMillis();
        } catch (IllegalArgumentException ex) {
            // Fall back to the date only format
            MutableDateTime dateTime = dateOnlyFormatter.parseMutableDateTime(date);
            dateTime.millisOfDay().set(dateTime.millisOfDay().getMaximumValue());
            return dateTime.getMillis();
        }
    }

    public static long beginningOfTheDay(String date) {
        try {
            // Try parsing using complete date/time format
            return dateTimeFormatter.parseDateTime(date).getMillis();
        } catch (IllegalArgumentException ex) {
            // Fall back to the date only format
            MutableDateTime dateTime = dateOnlyFormatter.parseMutableDateTime(date);
            dateTime.millisOfDay().set(dateTime.millisOfDay().getMaximumValue());
            return dateTime.getMillis();
        }
    }
}
return dateTimeFormatter.parseDateTime(date).getMillis();
} catch (IllegalArgumentException ex) {
    // Fall back to the date only format
    return dateOnlyFormatter.parseDateTime(date).getMillis();
}

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*/
package org.elasticsearch.license;

public enum LicensesStatus {
    VALID((byte) 0),
    INVALID((byte) 1),
    EXPIRED((byte) 2);

    private final byte id;

    LicensesStatus(byte id) {
        this.id = id;
    }

    public int id() {
        return id;
    }

    public static LicensesStatus fromId(int id) {
        if (id == 0) {
            return VALID;
        } else if (id == 1) {
            return INVALID;
        } else if (id == 2) {
            return EXPIRED;
        } else {
            throw new IllegalStateException("no valid LicensesStatus for id=" + id);
        }
    }
}

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*/
package org.elasticsearch.license;
import org.elasticsearch.common.inject.Inject;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.rest.BytesRestResponse;
import org.elasticsearch.rest.RestController;
import org.elasticsearch.rest.RestRequest;
import org.elasticsearch.rest.RestResponse;
import org.elasticsearch.rest.action.RestBuilderListener;
import org.elasticsearch.xpack.core.XPackClient;
import org.elasticsearch.xpack.core.rest.XPackRestHandler;

import java.io.IOException;
import java.util.HashMap;
import java.util.Map;
import static org.elasticsearch.rest.RestRequest.Method.GET;
import static org.elasticsearch.rest.RestStatus.NOT_FOUND;
import static org.elasticsearch.rest.RestStatus.OK;

public class RestGetLicenseAction extends XPackRestHandler {

    @Inject
    public RestGetLicenseAction(Settings settings, RestController controller) {
        super(settings);
        // @deprecated Remove deprecations in 6.0
        controller.registerWithDeprecatedHandler(GET, URI_BASE + "/license", this,
                                            GET, "/_license", deprecationLogger);

        // Remove _licenses support entirely in 6.0
        controller.registerAsDeprecatedHandler(GET, "/_licenses", this,
                                              
        "[GET /_licenses] is deprecated! Use " +
        "[GET /_xpack/license] instead.",
        deprecationLogger);
    }

    @Override
    public String getName() {
        return "xpack_get_license_action";
    }

    /**
     * There will be only one license displayed per feature, the selected license will have the latest expiry_date
     * out of all other licenses for the feature.
     * <p>
     * The licenses are sorted by latest issue_date
     */
@Override
public RestChannelConsumer doPrepareRequest(final RestRequest request, final XPackClient client) throws IOException {
    final Map<String, String> overrideParams = new HashMap<>(2);
    overrideParams.put(License.REST_VIEW_MODE, "true");
    overrideParams.put(License.LICENSE_VERSION_MODE, String.valueOf(License.VERSION_CURRENT));
    final ToXContent.Params params = new ToXContent.DelegatingMapParams(overrideParams, request);
    GetLicenseRequest getLicenseRequest = new GetLicenseRequest();
    getLicenseRequest.local(request.paramAsBoolean("local", getLicenseRequest.local()));
    return channel -> client.es().admin().cluster().execute(GetLicenseAction.INSTANCE, getLicenseRequest,
        new RestBuilderListener<GetLicenseResponse>(channel) {
            @Override
            public RestResponse buildResponse(GetLicenseResponse response, XContentBuilder builder) throws Exception {
                // Default to pretty printing, but allow ?pretty=false to disable
                if (!request.hasParam("pretty")) {
                    builder.prettyPrint().ifAtEnd();
                }
                boolean hasLicense = response.license() != null;
                builder.startObject();
                if (hasLicense) {
                    builder.startObject("license");
                    response.license().toInnerXContent(builder, params);
                    builder.endObject();
                }
                builder.endObject();
                return new BytesRestResponse(hasLicense ? OK : NOT_FOUND, builder);
            }
        });
    };
}

import java.io.IOException;
import java.io.InputStream;
import java.nio.ByteBuffer;
import java.util.ArrayList;
import java.util.Base64;
import java.util.Comparator;
import java.util.List;
import java.util.Locale;

*/

package org.elasticsearch.license;

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*/
import org.apache.lucene.util.CollectionUtil;
import org.elasticsearch.ElasticsearchException;
import org.elasticsearch.ElasticsearchParseException;
import org.elasticsearch.common.Strings;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import org.elasticsearch.common.xcontent.LoggingDeprecationHandler;
import org.elasticsearch.common.xcontent.NamedXContentRegistry;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.ToXContentObject;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentFactory;
import org.elasticsearch.common.xcontent.XContentParser;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.protocol.xpack.license.LicenseStatus;

/**
 * Data structure for license. Use { @link Builder} to build a license.
 * Provides serialization/deserialization & validation methods for license object
 */
public class License implements ToXContentObject {
    public static final int VERSION_START = 1;
    public static final int VERSION_NO_FEATURE_TYPE = 2;
    public static final int VERSION_START_DATE = 3;
    public static final int VERSION_CRYPTO_ALGORITHMS = 4;
    public static final int VERSION_CURRENT = VERSION_CRYPTO_ALGORITHMS;

    /**
     * XContent param name to deserialize license(s) with
     * an additional <code>status</code> field, indicating whether a
     * particular license is 'active' or 'expired' and no signature
     * and in a human readable format
     */
    public static final String REST_VIEW_MODE = "rest_view";

    /**
     * XContent param name to deserialize license(s) with
     * no signature
     */
    public static final String LICENSE_SPEC_VIEW_MODE = "license_spec_view";

    /**
     * XContent param name to deserialize licenses according
     * to a specific license version
     */
    public static final String LICENSE_VERSION_MODE = "license_version";

    public static final Comparator<License> LATEST_ISSUE_DATE_FIRST =
            Comparator.comparing(License::issueDate).reversed();
private final int version;
private final String uid;
private final String issuer;
private final String issuedTo;
private final long issueDate;
private final String type;
private final String subscriptionType;
private final String feature;
private final String signature;
private final long expiryDate;
private final long startDate;
private final int maxNodes;
private final OperationMode operationMode;

/**
 * Decouples operation mode of a license from the license type value.
 * <p>
 * Note: The mode indicates features that should be made available, but it does not indicate whether the license is active!
 * <p>
 * The id byte is used for ordering operation modes (used for merging license md in tribe node)
 */
public enum OperationMode {
    MISSING((byte) 0),
    TRIAL((byte) 1),
    BASIC((byte) 2),
    STANDARD((byte) 3),
    GOLD((byte) 4),
    PLATINUM((byte) 5);

    private final byte id;

    OperationMode(byte id) {
        this.id = id;
    }

    /** Returns non-zero positive number when <code>opMode1</code> is greater than <code>opMode2</code> */
    public static int compare(OperationMode opMode1, OperationMode opMode2) {
        return Integer.compare(opMode1.id, opMode2.id);
    }

    public static OperationMode resolve(String type) {
        switch (type.toLowerCase(Locale.ROOT)) {
            case "missing":
                return MISSING;
            case "trial":
                return TRIAL;
            case "basic":
                return BASIC;
            case "standard":
                return STANDARD;
            case "gold":
                return GOLD;
            case "platinum":
                return PLATINUM;
            default:
                return MISSING;
        }
    }
case "none": // bwc for 1.x subscription_type field
  return TRIAL;
  case "dev": // bwc for 1.x subscription_type field
  case "development": // bwc for 1.x subscription_type field
  return TRIAL;
  case "basic":
    return BASIC;
  case "standard":
    return STANDARD;
  case "silver":
  case "gold":
    return GOLD;
  case "platinum":
  case "cloud_internal":
  case "internal": // bwc for 1.x subscription_type field
  return PLATINUM;
  default:
    throw new IllegalArgumentException("unknown type [" + type + "]");
}

private License(int version, String uid, String issuer, String issuedTo, long issueDate, String type,
    String subscriptionType, String feature, String signature, long expiryDate, int maxNodes, long startDate)
{
  this.version = version;
  this.uid = uid;
  this.issuer = issuer;
  this.issuedTo = issuedTo;
  this.issueDate = issueDate;
  this.type = type;
  this.subscriptionType = subscriptionType;
  this.feature = feature;
  this.signature = signature;
  // We will validate that only a basic license can have the
  BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS
  // in the validate() method.
  if (expiryDate == -1) {
    this.expiryDate = LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS;
  } else {
    this.expiryDate = expiryDate;
  }
  this.maxNodes = maxNodes;
  this.startDate = startDate;
  if (version == VERSION_START) {
    // in 1.x: the acceptable values for 'subscription_type': none | dev | silver | gold | platinum
    this.operationMode = OperationMode.resolve(subscriptionType);
  } else {
    // in 2.x: the acceptable values for 'type': trial | basic | silver | dev | gold | platinum
  }
this.operationMode = OperationMode.resolve(type);
} validate();
}

/**
 * @return version of the license
 */
public int version() {
    return version;
}

/**
 * @return a unique identifier for a license
 */
public String uid() {
    return uid;
}

/**
 * @return type of the license [trial, subscription, internal]
 */
public String type() {
    return type;
}

/**
 * @return the issueDate in milliseconds
 */
public long issueDate() {
    return issueDate;
}

/**
 * @return the startDate in milliseconds
 */
public long startDate() {
    return startDate;
}

/**
 * @return the expiry date in milliseconds
 */
public long expiryDate() {
    return expiryDate;
}
* @return the maximum number of nodes this license has been issued for
*/
public int maxNodes() {
    return maxNodes;
}

/**
* @return a string representing the entity this licenses has been issued to
*/
public String issuedTo() {
    return issuedTo;
}

/**
* @return a string representing the entity responsible for issuing this license (internal)
*/
public String issuer() {
    return issuer;
}

/**
* @return a string representing the signature of the license used for license verification
*/
public String signature() {
    return signature;
}

/**
* @return the operation mode of the license as computed from the license type or from
* the license mode file
*/
public OperationMode operationMode() {
    synchronized (this) {
        if (canReadOperationModeFromFile() && operationModeFileWatcher != null) {
            return operationModeFileWatcher.getCurrentOperationMode();
        }
    }
    return operationMode;
}

private boolean canReadOperationModeFromFile() {
    return type.equals("cloud_internal");
}

private volatile OperationModeFileWatcher operationModeFileWatcher;

/**
* Sets the operation mode file watcher for the license and initializes the
* file watcher when the license type allows to override operation mode from file
 */
public synchronized void setOperationModeFileWatcher(final OperationModeFileWatcher
operationModeFileWatcher) {
    this.operationModeFileWatcher = operationModeFileWatcher;
    if (canReadOperationModeFromFile()) {
        this.operationModeFileWatcher.init();
    }
}

/**
 * Removes operation mode file watcher, so unused license objects can be gc'ed
 */
public synchronized void removeOperationModeFileWatcher() {
    this.operationModeFileWatcher = null;
}

/**
 * @return the current license's status
 */
public LicenseStatus status() {
    long now = System.currentTimeMillis();
    if (issueDate > now) {
        return LicenseStatus.INVALID;
    } else if (expiryDate < now) {
        return LicenseStatus.EXPIRED;
    }
    return LicenseStatus.ACTIVE;
}

private void validate() {
    if (issuer == null) {
        throw new IllegalStateException("issuer can not be null");
    } else if (issuedTo == null) {
        throw new IllegalStateException("issuedTo can not be null");
    } else if (issueDate == -1) {
        throw new IllegalStateException("issueDate has to be set");
    } else if (type == null) {
        throw new IllegalStateException("type can not be null");
    } else if (subscriptionType == null && version == VERSION_START) {
        throw new IllegalStateException("subscriptionType can not be null");
    } else if (uid == null) {
        throw new IllegalStateException("uid can not be null");
    } else if (feature == null && version == VERSION_START) {
        throw new IllegalStateException("feature can not be null");
    } else if (maxNodes == -1) {
        throw new IllegalStateException("maxNodes has to be set");
    } else if (expiryDate == -1) {
throw new IllegalStateException("expiryDate has to be set");
} else if (expiryDate == LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS
&& "basic".equals(type) == false) {
    throw new IllegalStateException("only basic licenses are allowed to have no expiration");
}

public static License readLicense(StreamInput in) throws IOException {
    int version = in.readVInt(); // Version for future extensibility
    if (version > VERSION_CURRENT) {
        throw new ElasticsearchException("Unknown license version found, please upgrade all nodes to the latest
        " +
            " elasticsearch-license" +
            " plugin");
    }
    Builder builder = builder();
    builder.version(version);
    builder.uid(in.readString());
    builder.type(in.readString());
    if (version == VERSION_START) {
        builder.subscriptionType(in.readString());
    }
    builder.issueDate(in.readLong());
    if (version == VERSION_START) {
        builder.feature(in.readString());
    }
    builder.expiryDate(in.readLong());
    builder.maxNodes(in.readInt());
    builder.issuedTo(in.readString());
    builder.issuer(in.readString());
    builder.signature(in.readOptionalString());
    if (version >= VERSION_START_DATE) {
        builder.startDate(in.readLong());
    }
    return builder.build();
}

public void writeTo(StreamOutput out) throws IOException {
    out.writeVInt(version);
    out.writeString(uid);
    out.writeString(type);
    if (version == VERSION_START) {
        out.writeString(subscriptionType);
    }
    out.writeLong(issueDate);
    if (version == VERSION_START) {
        out.writeString(feature);
    }
    out.writeLong(expiryDate);

out.writeInt(maxNodes);
out.writeString(issuedTo);
out.writeString(issuer);
out.writeOptionalString(signature);
if (version >= VERSION_START_DATE) {
    out.writeLong(startDate);
}
}

@Override
public String toString() {
    try {
        final XContentBuilder builder = XContentFactory.jsonBuilder();
        toXContent(builder, ToXContent.EMPTY_PARAMS);
        return Strings.toString(builder);
    } catch (IOException e) {
        return "";
    }
}

@Override
public XContentBuilder toXContent(XContentBuilder builder, Params params) throws IOException {
    builder.startObject();
    toInnerXContent(builder, params);
    builder.endObject();
    return builder;
}

public XContentBuilder toInnerXContent(XContentBuilder builder, Params params) throws IOException {
    boolean licenseSpecMode = params.paramAsBoolean(LICENSE_SPEC_VIEW_MODE, false);
    boolean restViewMode = params.paramAsBoolean(REST_VIEW_MODE, false);
    boolean previouslyHumanReadable = builder.humanReadable();
    if (licenseSpecMode && restViewMode) {
        throw new IllegalArgumentException("can have either " + REST_VIEW_MODE + " or " + LICENSE_SPEC_VIEW_MODE);
    } else if (restViewMode) {
        if (!previouslyHumanReadable) {
            builder.humanReadable(true);
        }
    }
    final int version;
    if (params.param(LICENSE_VERSION_MODE) != null && restViewMode) {
        version = Integer.parseInt(params.param(LICENSE_VERSION_MODE));
    } else {
        version = this.version;
    }
    if (restViewMode) {
        builder.field(Fields.STATUS, status().label());
builder.field(Fields.UID, uid);
builder.field(Fields.TYPE, type);
if (version == VERSION_START) {
builder.field(Fields.SUBSCRIPTION_TYPE, subscriptionType);
}
builder.timeField(Fields.ISSUE_DATE_IN_MILLIS, Fields.ISSUE_DATE, issueDate);
if (version == VERSION_START) {
builder.field(Fields.FEATURE, feature);
}
if (expiryDate != LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS) {
builder.timeField(Fields.EXPIRY_DATE_IN_MILLIS, Fields.EXPIRY_DATE, expiryDate);
}
builder.field(Fields.MAX_NODES, maxNodes);
builder.field(Fields.ISSUED_TO, issuedTo);
builder.field(Fields.ISSUER, issuer);
if (!licenseSpecMode && !restViewMode && signature != null) {
builder.field(Fields.SIGNATURE, signature);
}
if (restViewMode) {
    builder.humanReadable(previouslyHumanReadable);
}
if (version >= VERSION_START_DATE) {
builder.timeField(Fields.START_DATE_IN_MILLIS, Fields.START_DATE, startDate);
}
return builder;
}

public static License fromXContent(XContentParser parser) throws IOException {
    Builder builder = new Builder();
    XContentParser.Token token;
    while ((token = parser.nextToken()) != XContentParser.Token.END_OBJECT) {
        if (token == XContentParser.Token.FIELD_NAME) {
            String currentFieldName = parser.currentName();
            token = parser.nextToken();
            if (token.isValue()) {
                if (Fields.UID.equals(currentFieldName)) {
                    builder.uid(parser.text());
                } else if (Fields.TYPE.equals(currentFieldName)) {
                    builder.type(parser.text());
                } else if (Fields.SUBSCRIPTION_TYPE.equals(currentFieldName)) {
                    builder.subscriptionType(parser.text());
                } else if (Fields.ISSUE_DATE.equals(currentFieldName)) {
                    builder.issueDate(parseDate(parser, "issue", false));
                } else if (Fields.ISSUE_DATE_IN_MILLIS.equals(currentFieldName)) {
                    builder.issueDate(parser.longValue());
                } else if (Fields.FEATURE.equals(currentFieldName)) {
                }
            }
        }
    }
    return builder;
}
builder.feature(parser текст());
} else if (Fields.EXPIRY_DATE.equals(currentFieldName)) {
    builder.expiryDate(parseDate(parser, "expiration", true));
} else if (Fields.EXPIRY_DATE_IN_MILLIS.equals(currentFieldName)) {
    builder.expiryDate(parser.longValue());
} else if (Fields.START_DATE.equals(currentFieldName)) {
    builder.startDate(parseDate(parser, "start", false));
} else if (Fields.START_DATE_IN_MILLIS.equals(currentFieldName)) {
    builder.startDate(parser.longValue());
} else if (Fields.MAX_NODES.equals(currentFieldName)) {
    builder.maxNodes(parser.intValue());
} else if (Fields.ISSUED_TO.equals(currentFieldName)) {
    builder.issuedTo(parser.text());
} else if (Fields.ISSUER.equals(currentFieldName)) {
    builder.issuer(parser.text());
} else if (Fields.SIGNATURE.equals(currentFieldName)) {
    builder.signature(parser.text());
} else if (Fields.VERSION.equals(currentFieldName)) {
    builder.version(parser.intValue());
}
// Ignore unknown elements - might be new version of license
} else if (token == XContentParser.Token.START_ARRAY) {
    // It was probably created by newer version - ignoring
    parser.skipChildren();
} else if (token == XContentParser.Token.START_OBJECT) {
    // It was probably created by newer version - ignoring
    parser.skipChildren();
}
// not a license spec
if (builder.signature != null) {
    byte[] signatureBytes = Base64.getDecoder().decode(builder.signature);
    ByteBuffer byteBuffer = ByteBuffer.wrap(signatureBytes);
    int version = byteBuffer.getInt();
    // we take the absolute version, because negative versions
    // mean that the license was generated by the cluster (see TrialLicense)
    // and positive version means that the license was signed
    if (version < 0) {
        version *= -1;
    }
    if (version == 0) {
        throw new ElasticsearchException("malformed signature for license [" + builder.uid + "]");
    } else if (version > VERSION_CURRENT) {
        throw new ElasticsearchException("Unknown license version found, please upgrade all nodes to the latest");
    } else {
        " +
        "elasticsearch-license plugin");
    }
// signature version is the source of truth
builder.version(version);
}
return builder.build();
}

/**
 * Returns true if the license was auto-generated (by license plugin),
 * false otherwise
 */
public static boolean isAutoGeneratedLicense(String signature) {
    try {
        byte[] signatureBytes = Base64.getDecoder().decode(signature);
        ByteBuffer byteBuffer = ByteBuffer.wrap(signatureBytes);
        return byteBuffer.getInt() < 0;
    } catch (IllegalArgumentException e) {
        throw new IllegalStateException(e);
    }
}

public static License fromSource(BytesReference bytes, XContentType xContentType) throws IOException {
    if (bytes == null || bytes.length() == 0) {
        throw new ElasticsearchParseException("failed to parse license - no content provided");
    }
    if (xContentType == null) {
        throw new ElasticsearchParseException("failed to parse license - no content-type provided");
    }
    // EMPTY is safe here because we don't call namedObject
    try (InputStream byteStream = bytes.streamInput();
        XContentParser parser = xContentType.xContent()
            .createParser(NamedXContentRegistry.EMPTY, LoggingDeprecationHandler.INSTANCE, byteStream)) {
        License license = null;
        if (parser.nextToken() == XContentParser.Token.START_OBJECT) {
            if (parser.nextToken() == XContentParser.Token.FIELD_NAME) {
                String currentFieldName = parser.currentName();
                if (Fields.LICENSES.equals(currentFieldName)) {
                    final List<License> pre20Licenses = new ArrayList<>();
                    if (parser.nextToken() == XContentParser.Token.START_ARRAY) {
                        while (parser.nextToken() != XContentParser.Token.END_ARRAY) {
                            pre20Licenses.add(License.fromXContent(parser));
                        }
                    }
                    // take the latest issued unexpired license
                    CollectionUtil.timSort(pre20Licenses, LATEST_ISSUE_DATE_FIRST);
                    long now = System.currentTimeMillis();
                    for (License oldLicense : pre20Licenses) {
                        if (oldLicense.expiryDate() > now) {
                            license = oldLicense;
                        }
                    }
                }
            }
        }
    }
}
break;
}

if (license == null && !pre20Licenses.isEmpty()) {
    license = pre20Licenses.get(0);
}
else {
    throw new ElasticsearchParseException("failed to parse licenses expected an array of licenses");
}
else if (Fields.LICENSE.equals(currentFieldName)) {
    license = License.fromXContent(parser);
}
// Ignore all other fields - might be created with new version
else {
    throw new ElasticsearchParseException("failed to parse licenses expected field");
}
else {
    throw new ElasticsearchParseException("failed to parse licenses expected start object");
}
return license;
}

@override
public boolean equals(Object o) {
    if (this == o) return true;
    if (o == null || getClass() != o.getClass()) return false;
    License license = (License) o;
    if (issueDate != license.issueDate) return false;
    if (expiryDate != license.expiryDate) return false;
    if (startDate != license.startDate) return false;
    if (maxNodes != license.maxNodes) return false;
    if (version != license.version) return false;
    if (uid != null ? !uid.equals(license.uid) : license.uid != null) return false;
    if (issuer != null ? !issuer.equals(license.issuer) : license.issuer != null) return false;
    if (issuedTo != null ? !issuedTo.equals(license.issuedTo) : license.issuedTo != null) return false;
    if (type != null ? !type.equals(license.type) : license.type != null) return false;
    if (subscriptionType != null ? !subscriptionType.equals(license.subscriptionType) : license.subscriptionType != null) return false;
    if (feature != null ? !feature.equals(license.feature) : license.feature != null) return false;
    return !(signature != null ? !signature.equals(license.signature) : license.signature != null);
}

@override
public int hashCode() {
    int result = uid != null ? uid.hashCode() : 0;
    result = 31 * result + (issuer != null ? issuer.hashCode() : 0);
    result = 31 * result + (issuedTo != null ? issuedTo.hashCode() : 0);
    result = 31 * result + (int) (issueDate ^ (issueDate >>> 32));
    result = 31 * result + (type != null ? type.hashCode() : 0);
    result = 31 * result + (subscriptionType != null ? subscriptionType.hashCode() : 0);
    result = 31 * result + (feature != null ? feature.hashCode() : 0);
    result = 31 * result + (signature != null ? signature.hashCode() : 0);
    result = 31 * result + (int) (expiryDate ^ (expiryDate >>> 32));
    result = 31 * result + (int) (startDate ^ (startDate>>> 32));
    result = 31 * result + maxNodes;
    result = 31 * result + version;
    return result;
}

public static final class Fields {

    public static final String STATUS = "status";
    public static final String UID = "uid";
    public static final String TYPE = "type";
    public static final String SUBSCRIPTION_TYPE = "subscription_type";
    public static final String ISSUE_DATE_IN_MILLIS = "issue_date_in_millis";
    public static final String ISSUE_DATE = "issue_date";
    public static final String FEATURE = "feature";
    public static final String EXPIRY_DATE_IN_MILLIS = "expiry_date_in_millis";
    public static final String EXPIRY_DATE = "expiry_date";
    public static final String START_DATE_IN_MILLIS = "start_date_in_millis";
    public static final String START_DATE = "start_date";
    public static final String MAX_NODES = "max_nodes";
    public static final String ISSUED_TO = "issued_to";
    public static final String ISSUER = "issuer";
    public static final String VERSION = "version";
    public static final String SIGNATURE = "signature";

    public static final String LICENSES = "licenses";
    public static final String LICENSE = "license";

}

private static long parseDate(XContentParser parser, String description, boolean endOfTheDay) throws IOException {
    if (parser.currentToken() == XContentParser.Token.VALUE_NUMBER) {
        return parser.longValue();
    } else {
        try {
            if (endOfTheDay) {
                return DateUtils.endOfTheDay(parser.text());
            } else {
                return parser.longValue();
            }
        } catch (ParseException e) {
            throw new IOException(description, e);
        }
    }
}


public static Builder builder() {
    return new Builder();
}

public static class Builder {
    private int version = License.VERSION_CURRENT;
    private String uid;
    private String issuer;
    private String issuedTo;
    private long issueDate = -1;
    private String type;
    private String subscriptionType;
    private String feature;
    private String signature;
    private long expiryDate = -1;
    private long startDate = -1;
    private int maxNodes = -1;

    public Builder uid(String uid) {
        this.uid = uid;
        return this;
    }

    public Builder version(int version) {
        this.version = version;
        return this;
    }

    public Builder issuer(String issuer) {
        this.issuer = issuer;
        return this;
    }

    public Builder issuedTo(String issuedTo) {
        this.issuedTo = issuedTo;
        return this;
    }

    public Builder issueDate(long issueDate) {
        this.issueDate = issueDate;
        return this;
    }
}
public Builder type(String type) {
    this.type = type;
    return this;
}

public Builder subscriptionType(String subscriptionType) {
    this.subscriptionType = subscriptionType;
    return this;
}

public Builder feature(String feature) {
    this.feature = feature;
    return this;
}

public Builder expiryDate(long expiryDate) {
    this.expiryDate = expiryDate;
    return this;
}

public Builder maxNodes(int maxNodes) {
    this.maxNodes = maxNodes;
    return this;
}

public Builder signature(String signature) {
    if (signature != null) {
        this.signature = signature;
    }
    return this;
}

public Builder startDate(long startDate) {
    this.startDate = startDate;
    return this;
}

public Builder fromLicenseSpec(License license, String signature) {
    return uid(license.uid())
    .version(license.version())
    .issuedTo(license.issuedTo())
    .issueDate(license.issueDate())
    .startDate(license.startDate())
    .type(license.type())
    .subscriptionType(license.subscriptionType)
/**
 * Returns a builder that converts pre 2.0 licenses
 * to the new license format
 */

public Builder fromPre20LicenseSpec(License pre20License) {
    return uid(pre20License.uid())
        .issuedTo(pre20License.issuedTo())
        .issueDate(pre20License.issueDate())
        .maxNodes(pre20License.maxNodes())
        .expiryDate(pre20License.expiryDate());
}

public License build() {
    return new License(version, uid, issuer, issuedTo, issueDate, type,
                        subscriptionType, feature, signature, expiryDate, maxNodes, startDate);
}

public Builder validate() {
    if (issuer == null) {
        throw new IllegalStateException("issuer can not be null");
    } else if (issuedTo == null) {
        throw new IllegalStateException("issuedTo can not be null");
    } else if (issueDate == -1) {
        throw new IllegalStateException("issueDate has to be set");
    } else if (type == null) {
        throw new IllegalStateException("type can not be null");
    } else if (uid == null) {
        throw new IllegalStateException("uid can not be null");
    } else if (signature == null) {
        throw new IllegalStateException("signature can not be null");
    } else if (maxNodes == -1) {
        throw new IllegalStateException("maxNodes has to be set");
    } else if (expiryDate == -1) {
        throw new IllegalStateException("expiryDate has to be set");
    }
    return this;
}

/**
 * Returns <code>true</code> iff the license is a production license
 */
public boolean isProductionLicense() {
    switch (operationMode()) {
        case MISSING:
        case TRIAL:
        case BASIC:
            return false;
        case STANDARD:
        case GOLD:
        case PLATINUM:
            return true;
        default:
            throw new AssertionError("unknown operation mode: " + operationMode());
    }
}
super(settings, GetLicenseAction.NAME, transportService, clusterService, threadPool, actionFilters,
indexNameExpressionResolver,
   GetLicenseRequest::new);
this.licenseService = licenseService;
}

@Override
protected String executor() {
    return ThreadPool.Names.MANAGEMENT;
}

@Override
protected GetLicenseResponse newResponse() {
    return new GetLicenseResponse();
}

@Override
protected ClusterBlockException checkBlock(GetLicenseRequest request, ClusterState state) {
    return state.blocks().globalBlockedException(ClusterBlockLevel.METADATA_READ);
}

/*@Override
protected void masterOperation(final GetLicenseRequest request, ClusterState state,
    final ActionListener<GetLicenseResponse> listener) throws ElasticsearchException {
    listener.onResponse(new GetLicenseResponse(licenseService.getLicense()));
}
*/

package org.elasticsearch.license;

import org.apache.logging.log4j.Logger;
import org.apache.logging.log4j.message.ParameterizedMessage;
import org.apache.logging.log4j.util.Supplier;
import org.elasticsearch.Version;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.ClusterStateUpdateTask;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.Nullable;
import org.elasticsearch.common.logging.Loggers;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.xpack.core.XPackPlugin;
import java.time.Clock;

import java.time.Clock;
import java.util.UUID;

public class StartupSelfGeneratedLicenseTask extends ClusterStateUpdateTask {

    /**
     * Max number of nodes licensed by generated trial license
     */
    private int selfGeneratedLicenseMaxNodes = 1000;

    private final Settings settings;
    private final Clock clock;
    private final ClusterService clusterService;
    private final Logger logger;

    public StartupSelfGeneratedLicenseTask(Settings settings, Clock clock, ClusterService clusterService) {
        this.settings = settings;
        this.clock = clock;
        this.clusterService = clusterService;
        this.logger = Loggers.getLogger(getClass(), settings);
    }

    @Override
    public void clusterStateProcessed(String source, ClusterState oldState, ClusterState newState) {
        LicensesMetaData licensesMetaData = newState.metaData().custom(LicensesMetaData.TYPE);
        if (logger.isDebugEnabled()) {
            logger.debug("registered self generated license: {}", licensesMetaData);
        }
    }

    @Override
    public ClusterState execute(ClusterState currentState) throws Exception {
        XPackPlugin.checkReadyForXPackCustomMetadata(currentState);
        final MetaData metaData = currentState.metaData();
        final LicensesMetaData currentLicensesMetaData = metaData.custom(LicensesMetaData.TYPE);
        // do not generate a license if any license is present
        if (currentLicensesMetaData == null) {
            String type = LicenseService.SELF_GENERATED_LICENSE_TYPE.get(settings);
            if (SelfGeneratedLicense.validSelfGeneratedType(type) == false) {
                throw new IllegalArgumentException("Illegal self generated license type "+ type + ", Must be trial or basic.");
            }
            return updateWithLicense(currentState, type);
        } else if (LicenseUtils.signatureNeedsUpdate(currentLicensesMetaData.getLicense(), currentState.nodes())) {
            return updateLicenseSignature(currentState, currentLicensesMetaData);
        } else if (LicenseUtils.licenseNeedsExtended(currentLicensesMetaData.getLicense())) {
            return extendBasic(currentState, currentLicensesMetaData);
        } else {
            return currentState;
        }
    }
}

@Overr
private ClusterState updateLicenseSignature(ClusterState currentState, LicensesMetaData currentLicenseMetaData) {
    License license = currentLicenseMetaData.getLicense();
    MetaData.Builder mdBuilder = MetaData.builder(currentState.metaData());
    String type = license.type();
    long issueDate = license.issueDate();
    long expiryDate = license.expiryDate();
    // extend the basic license expiration date if needed since extendBasic will not be called now
    if ("basic".equals(type) && expiryDate != LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS) {
        expiryDate = LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS;
    }
    License.Builder specBuilder = License.builder()
        .uid(license.uid())
        .issuedTo(license.issuedTo())
        .maxNodes(selfGeneratedLicenseMaxNodes)
        .issueDate(issueDate)
        .type(type)
        .expiryDate(expiryDate);
    License selfGeneratedLicense = SelfGeneratedLicense.create(specBuilder, currentState.nodes());
    Version trialVersion = currentLicenseMetaData.getMostRecentTrialVersion();
    LicensesMetaData newLicenseMetadata = new LicensesMetaData(selfGeneratedLicense, trialVersion);
    mdBuilder.putCustom(LicensesMetaData.TYPE, newLicenseMetadata);
    logger.info("Updating existing license to the new version.
        Old license:
            {}
        New license:
            {}", license, newLicenseMetadata.getLicense());
    return ClusterState.builder(currentState).metaData(mdBuilder).build();
}

@Override
public void onFailure(String source, @Nullable Exception e) {
    logger.error((Supplier<?>) () -> new ParameterizedMessage("unexpected failure during [{}]", source), e);
}

private ClusterState extendBasic(ClusterState currentState, LicensesMetaData currentLicenseMetadata) {
    License license = currentLicenseMetaData.getLicense();
    MetaData.Builder mdBuilder = MetaData.builder(currentState.metaData());
    LicensesMetaData newLicenseMetadata = createBasicLicenseFromExistingLicense(currentLicenseMetadata);
    mdBuilder.putCustom(LicensesMetaData.TYPE, newLicenseMetadata);
    logger.info("Existing basic license has an expiration. Basic licenses no longer expire." +
        " Regenerating license.
        Old license:
        New license:", license, newLicenseMetadata.getLicense());
    return ClusterState.builder(currentState).metaData(mdBuilder).build();
}

private LicensesMetaData createBasicLicenseFromExistingLicense(LicensesMetaData currentLicenseMetadata) {
License currentLicense = currentLicenseMetadata.getLicense();
License.Builder specBuilder = License.builder()
    .uid(currentLicense.uid())
    .issuedTo(currentLicense.issuedTo())
    .maxNodes(selfGeneratedLicenseMaxNodes)
    .issueDate(currentLicense.issueDate())
    .type("basic")
    .expiryDate(LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS);
License selfGeneratedLicense = SelfGeneratedLicense.create(specBuilder, currentLicense.version());
Version trialVersion = currentLicenseMetadata.getMostRecentTrialVersion();
return new LicensesMetaData(selfGeneratedLicense, trialVersion);
}

private ClusterState updateWithLicense(ClusterState currentState, String type) {
  long issueDate = clock.millis();
  MetaData.Builder mdBuilder = MetaData.builder(currentState.metaData());
  long expiryDate;
  if ("basic".equals(type)) {
    expiryDate = LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS;
  } else {
    expiryDate = issueDate +
    LicenseService.NON_BASIC_SELF_GENERATED_LICENSE_DURATION.getMillis();
  }
  License.Builder specBuilder = License.builder()
    .uid(UUID.randomUUID().toString())
    .issuedTo(clusterService.getClusterName().value())
    .maxNodes(selfGeneratedLicenseMaxNodes)
    .issueDate(issueDate)
    .type(type)
    .expiryDate(expiryDate);
  License selfGeneratedLicense = SelfGeneratedLicense.create(specBuilder, currentState.nodes());
  LicensesMetaData licensesMetaData;
  if ("trial".equals(type)) {
    licensesMetaData = new LicensesMetaData(selfGeneratedLicense, Version.CURRENT);
  } else {
    licensesMetaData = new LicensesMetaData(selfGeneratedLicense, null);
  }
  mdBuilder.putCustom(LicensesMetaData.TYPE, licensesMetaData);
  return ClusterState.builder(currentState).metaData(mdBuilder).build();
}

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 * or more contributor license agreements. Licensed under the Elastic License;
 * you may not use this file except in compliance with the Elastic License.
 */
package org.elasticsearch.license;
import org.elasticsearch.Version;
import org.elasticsearch.cluster.AbstractNamedDiffable;
import org.elasticsearch.cluster.MergableCustomMetaData;
import org.elasticsearch.cluster.NamedDiff;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.common.Nullable;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentParser;
import org.elasticsearch.license.License.OperationMode;
import org.elasticsearch.xpack.core.XPackPlugin;
import java.io.IOException;
import java.util.EnumSet;

/**
 * Contains metadata about registered licenses
 */
public class LicensesMetaData extends AbstractNamedDiffable<MetaData.Custom> implements 
XPackPlugin.XPackMetaDataCustom,

MergableCustomMetaData<LicensesMetaData> {

public static final String TYPE = "licenses";

/**
 * When license is explicitly removed by a user, LICENSE_TOMBSTONE
 * is used as a placeholder in the license metadata. This enables
 * us to distinguish between the scenario when a cluster never
 * had a license (null) and when a license was removed explicitly
 * (LICENSE_TOMBSTONE).
 * We rely on this to decide whether to generate a unsigned trial
 * license or not. we should only generate a license if no license
 * ever existed in the cluster state
 */
public static final License LICENSE_TOMBSTONE = License.builder()
.type("trial")
.issuer("elasticsearch")
.uid("TOMBSTONE")
.issuedTo("")
.maxNodes(0)
.issueDate(0)
.expiryDate(0)
.build();

private License license;

// This field describes the version of x-pack for which this cluster has exercised a trial. If the field
// is null, then no trial has been exercised. We keep the version to leave open the possibility that we
// may eventually allow a cluster to exercise a trial every time they upgrade to a new major version.

@Nullable
private Version trialVersion;

LicensesMetaData(License license, Version trialVersion) {
    this.license = license;
    this.trialVersion = trialVersion;
}

public License getLicense() {
    return license;
}

boolean isEligibleForTrial() {
    if (trialVersion == null) {
        return true;
    }
    return Version.CURRENT.major > trialVersion.major;
}

Version getMostRecentTrialVersion() {
    return trialVersion;
}

@Override
public String toString() {
    return "LicensesMetaData{" +
            "license=" + license +
            ", trialVersion=" + trialVersion +
            "}";
}

@Override
public boolean equals(Object o) {
    if (this == o) return true;
    if (o == null || getClass() != o.getClass()) return false;
    LicensesMetaData that = (LicensesMetaData) o;
    if (license != null ? !license.equals(that.license) : that.license != null) return false;
    return trialVersion != null ? trialVersion.equals(that.trialVersion) : that.trialVersion == null;
}

@Override
public int hashCode() {
    int result = license != null ? license.hashCode() : 0;
    result = 31 * result + (trialVersion != null ? trialVersion.hashCode() : 0);
}


return result;
}

@override
public String getWriteableName() {
    return TYPE;
}

@override
public Version getMinimalSupportedVersion() {
    return Version.CURRENT.minimumCompatibilityVersion();
}

@override
public EnumSet<MetaData.XContentContext> context() {
    return EnumSet.of(MetaData.XContentContext.GATEWAY);
}

public static LicensesMetaData fromXContent(XContentParser parser) throws IOException {
    License license = LICENSE_TOMBSTONE;
    Version trialLicense = null;
    XContentParser.Token token;
    while ((token = parser.nextToken()) != XContentParser.Token.END_OBJECT) {
        if (token == XContentParser.Token.FIELD_NAME) {
            String fieldName = parser.currentName();
            if (fieldName != null) {
                if (fieldName.equals(Fields.LICENSE)) {
                    token = parser.nextToken();
                    if (token == XContentParser.Token.START_OBJECT) {
                        license = License.fromXContent(parser);
                    } else if (token == XContentParser.Token.VALUE_NULL) {
                        license = LICENSE_TOMBSTONE;
                    }
                } else if (fieldName.equals(Fields.TRIAL_LICENSE)) {
                    parser.nextToken();
                    trialLicense = Version.fromString(parser.text());
                }
            }
        } else if (fieldName.equals(Fields.TRIAL_LICENSE)) {
            parser.nextToken();
            trialLicense = Version.fromString(parser.text());
        }
    }
    return new LicensesMetaData(license, trialLicense);
}

@override
public XContentBuilder toXContent(XContentBuilder builder, Params params) throws IOException {
    if (license == LICENSE_TOMBSTONE) {
        builder.nullField(Fields.LICENSE);
    } else {
builder.startObject(Fields.LICENSE);
license.toInnerXContent(builder, params);
builder.endObject();
}
if (trialVersion != null) {
    builder.field(Fields.TRIAL_LICENSE, trialVersion.toString());
}
return builder;

@Override
public void writeTo(StreamOutput streamOutput) throws IOException {
    if (license == LICENSE_TOMBSTONE) {
        streamOutput.writeBoolean(false); // no license
    } else {
        streamOutput.writeBoolean(true); // has a license
        license.writeTo(streamOutput);
    }
    if (streamOutput.getVersion().onOrAfter(Version.V_6_1_0)) {
        if (trialVersion == null) {
            streamOutput.writeBoolean(false);
        } else {
            streamOutput.writeBoolean(true);
            Version.writeVersion(trialVersion, streamOutput);
        }
    }
}

public LicensesMetaData(StreamInput streamInput) throws IOException {
    if (streamInput.readBoolean()) {
        license = License.readLicense(streamInput);
    } else {
        license = LICENSE_TOMBSTONE;
    }
    if (streamInput.getVersion().onOrAfter(Version.V_6_1_0)) {
        boolean hasExercisedTrial = streamInput.readBoolean();
        if (hasExercisedTrial) {
            this.trialVersion = Version.readVersion(streamInput);
        }
    }
}

public static NamedDiff<MetaData.Custom> readDiffFrom(StreamInput streamInput) throws IOException {
    return readDiffFrom(MetaData.Custom.class, TYPE, streamInput);
}

public static License extractLicense(LicensesMetaData licensesMetaData) {  
    if (licensesMetaData != null) {
        if (licensesMetaDataLICENSE_TOMBSTONE) {
            return LICENSE_TOMBSTONE;
        } else {
            return license;
        }
    }
}

public static NamedDiff<MetaData.Custom> readDiffFrom(StreamInput streamInput) throws IOException {
    return readDiffFrom(MetaData.Custom.class, TYPE, streamInput);
}

public static License extractLicense(LicensesMetaData licensesMetaData) {
    if (licensesMetaData != null) {
        return License.readLicense(streamInput);
    }
}

public static NamedDiff<MetaData.Custom> readDiffFrom(StreamInput streamInput) throws IOException {
    return readDiffFrom(MetaData.Custom.class, TYPE, streamInput);
}

public static License extractLicense(LicensesMetaData licensesMetaData) {
    if (licensesMetaData != null) {
        return License.readLicense(streamInput);
    }
}
License license = licensesMetaData.getLicense();
if (license == LicensesMetaData.LICENSE_TOMBSTONE) {
    return null;
} else {
    return license;
}
}
return null;
}

@Override
public LicensesMetaData merge(LicensesMetaData other) {
    if (other.license == null) {
        return this;
    } else if (license == null
        || OperationMode.compare(other.license.operationMode(), license.operationMode()) > 0) {
        return other;
    }
    return this;
}

private static final class Fields {
    private static final String LICENSE = "license";
    private static final String TRIAL_LICENSE = "trial_license";
}
} /*
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 * or more contributor license agreements. Licensed under the Elastic License;
 * you may not use this file except in compliance with the Elastic License.
 */
package org.elasticsearch.license;

import org.elasticsearch.action.ActionResponse;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import java.io.IOException;

public class GetLicenseResponse extends ActionResponse {

    private License license;

    GetLicenseResponse() {
    }

    GetLicenseResponse(License license) {
        this.license = license;
    }
}
public License license() {
    return license;
}

@Override
public void readFrom(StreamInput in) throws IOException {
    super.readFrom(in);
    if (in.readBoolean()) {
        license = License.readLicense(in);
    }
}

@Override
public void writeTo(StreamOutput out) throws IOException {
    super.writeTo(out);
    if (license == null) {
        out.writeBoolean(false);
    } else {
        out.writeBoolean(true);
        license.writeTo(out);
    }
}

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 * or more contributor license agreements. Licensed under the Elastic License;
 * you may not use this file except in compliance with the Elastic License.
 */
package org.elasticsearch.license;

import org.elasticsearch.action.ActionListener;
import org.elasticsearch.action.support.ActionFilters;
import org.elasticsearch.action.support.master.TransportMasterNodeAction;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.block.ClusterBlockException;
import org.elasticsearch.cluster.block.ClusterBlockLevel;
import org.elasticsearch.cluster.metadata.IndexNameExpressionResolver;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.inject.Inject;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.threadpool.ThreadPool;
import org.elasticsearch.transport.TransportService;

public class TransportPostStartTrialAction extends TransportMasterNodeAction<
PostStartTrialRequest,
PostStartTrialResponse> {
private final LicenseService licenseService;

@Inject
public TransportPostStartTrialAction(Settings settings, TransportService transportService, ClusterService
clusterService,
    LicenseService licenseService, ThreadPool threadPool, ActionFilters actionFilters,
    IndexNameExpressionResolver indexNameExpressionResolver) {
    super(settings, PostStartTrialAction.NAME, transportService, clusterService, threadPool, actionFilters,
        indexNameExpressionResolver, PostStartTrialRequest::new);
    this.licenseService = licenseService;
}

@Override
protected String executor() {
    return ThreadPool.Names.SAME;
}

@Override
protected PostStartTrialResponse newResponse() {
    return new PostStartTrialResponse();
}

@Override
protected void masterOperation(PostStartTrialRequest request, ClusterState state,
    ActionListener<PostStartTrialResponse> listener) throws Exception {
    licenseService.startTrialLicense(request, listener);
}

@Override
protected ClusterBlockException checkBlock(PostStartTrialRequest request, ClusterState state) {
    return state.blocks().globalBlockedException(ClusterBlockLevel.METADATA_WRITE);
}

/**
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 */
package org.elasticsearch.license;

import org.elasticsearch.Version;
import org.elasticsearch.action.ActionRequestValidationException;
import org.elasticsearch.action.support.master.MasterNodeRequest;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import java.io.IOException;
public class PostStartTrialRequest extends MasterNodeRequest<PostStartTrialRequest> {

    private boolean acknowledge = false;
    private String type;

    @Override
    public ActionRequestValidationException validate() {
        return null;
    }

    public PostStartTrialRequest setType(String type) {
        this.type = type;
        return this;
    }

    public String getType() {
        return type;
    }

    public PostStartTrialRequest acknowledge(boolean acknowledge) {
        this.acknowledge = acknowledge;
        return this;
    }

    public boolean isAcknowledged() {
        return acknowledge;
    }

    @Override
    public void readFrom(StreamInput in) throws IOException {
        super.readFrom(in);
        if (in.getVersion().onOrAfter(Version.V_6_3_0)) {
            type = in.readString();
            acknowledge = in.readBoolean();
        } else {
            type = "trial";
            acknowledge = true;
        }
    }

    @Override
    public void writeTo(StreamOutput out) throws IOException {
        Version version = Version.V_6_3_0;
        if (out.getVersion().onOrAfter(version)) {
            super.writeTo(out);
            out.writeString(type);
            out.writeBoolean(acknowledge);
        }
    }
}
if ("trial".equals(type) == false) {
    throw new IllegalArgumentException("All nodes in cluster must be version "+ version + " or newer to start trial with a different type than 'trial'. Attempting to write to "+
    "a node with version [" + out.getVersion() + "] with trial type [" + type + "].");
} else if (acknowledge == false) {
    throw new IllegalArgumentException("Request must be acknowledged to send to a node with a version "+
    "prior to [" + version + "]. Attempting to send request to node with version [" + out.getVersion() + "]
    "without acknowledgement.");
} else {
    super.writeTo(out);
}

package org.elasticsearch.license;

import org.elasticsearch.action.support.master.AcknowledgedRequestBuilder;
import org.elasticsearch.client.ElasticsearchClient;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.xcontent.XContentType;

/**
* Register license request builder
*/
public class PutLicenseRequestBuilder extends AcknowledgedRequestBuilder<PutLicenseRequest, PutLicenseResponse, PutLicenseRequestBuilder> {

    public PutLicenseRequestBuilder(ElasticsearchClient client) {
        this(client, PutLicenseAction.INSTANCE);
    }

    /**
    * Constructs register license request
    *
    * @param client     elasticsearch client
    */
    public PutLicenseRequestBuilder(ElasticsearchClient client, PutLicenseAction action) {
        super(client, action, new PutLicenseRequest());
    }

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    */
* Sets the license
* @param license license
* @return this builder
*/

public PutLicenseRequestBuilder setLicense(License license) {
    request.license(license);
    return this;
}

public PutLicenseRequestBuilder setLicense(BytesReference licenseSource, XContentType xContentType) {
    request.license(licenseSource, xContentType);
    return this;
}

public PutLicenseRequestBuilder setAcknowledge(boolean acknowledge) {
    request.acknowledge(acknowledge);
    return this;
}

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*/

package org.elasticsearch.license;

import org.elasticsearch.action.ActionRequestValidationException;
import org.elasticsearch.action.support.master.MasterNodeReadRequest;

public class GetBasicStatusRequest extends MasterNodeReadRequest<GetBasicStatusRequest> {
    public GetBasicStatusRequest() {
    }

    @Override
    public ActionRequestValidationException validate() {
        return null;
    }
}

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*/

package org.elasticsearch.license;

import org.elasticsearch.action.ActionListener;
import org.elasticsearch.action.support.ActionFilters;
import org.elasticsearch.action.support.master.TransportMasterNodeReadAction;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.block.ClusterBlockException;
import org.elasticsearch.cluster.block.ClusterBlockLevel;
import org.elasticsearch.cluster.metadata.IndexNameExpressionResolver;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.inject.Inject;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.threadpool.ThreadPool;
import org.elasticsearch.transport.TransportService;

public class TransportGetBasicStatusAction extends TransportMasterNodeReadAction<GetBasicStatusRequest,
GetBasicStatusResponse> {

@Inject
public TransportGetBasicStatusAction(Settings settings, TransportService transportService, ClusterService
clusterService,

        ThreadPool threadPool, ActionFilters actionFilters,
IndexNameExpressionResolver indexNameExpressionResolver) {

    super(settings, GetBasicStatusAction.NAME, transportService, clusterService, threadPool, actionFilters,
indexNameExpressionResolver, GetBasicStatusRequest::new);
}

@Override
protected String executor() {
    return ThreadPool.Names.SAME;
}

@Override
protected GetBasicStatusResponse newResponse() {
    return new GetBasicStatusResponse();
}

@Override
protected void masterOperation(GetBasicStatusRequest request, ClusterState state,
ActionListener<GetBasicStatusResponse> listener) throws Exception {

    LicensesMetaData licensesMetaData = state.metaData().custom(LicensesMetaData.TYPE);
    if (licensesMetaData == null) {
        listener.onResponse(new GetBasicStatusResponse(true));
    } else {
        License license = licensesMetaData.getLicense();
        listener.onResponse(new GetBasicStatusResponse(license == null || license.type().equals("basic") == false));
    }
}

@Override

protected ClusterBlockException checkBlock(GetBasicStatusRequest request, ClusterState state) {
    return state.blocks().globalBlockedException(ClusterBlockLevel.METADATA_READ);
}

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 */
package org.elasticsearch.license;

import org.elasticsearch.action.Action;
import org.elasticsearch.client.ElasticsearchClient;

public class GetTrialStatusAction extends Action<GetTrialStatusRequest, GetTrialStatusResponse, GetTrialStatusRequestBuilder> {

    public static final GetTrialStatusAction INSTANCE = new GetTrialStatusAction();
    public static final String NAME = "cluster:admin/xpack/license/trial_status";

    private GetTrialStatusAction() {
        super(NAME);
    }

    @Override
    public GetTrialStatusRequestBuilder newRequestBuilder(ElasticsearchClient client) {
        return new GetTrialStatusRequestBuilder(client, this);
    }

    @Override
    public GetTrialStatusResponse newResponse() {
        return new GetTrialStatusResponse();
    }

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     */
    package org.elasticsearch.license;

    import org.elasticsearch.action.ActionListener;
    import org.elasticsearch.client.ElasticsearchClient;

    public class LicensingClient {

        private final ElasticsearchClient client;

        public LicensingClient(ElasticsearchClient client) {
            this.client = client;
        }

        public void getTrialStatus(GetTrialStatusRequest request, ActionListener<GetTrialStatusResponse> listener) {
            GetTrialStatusAction action = LicensingClient.class.getDeclaredMethod("getTrialStatus").getDeclaringClass().getDeclaredConstructor(ElasticsearchClient.class, ActionListener.class).newInstance(client, listener);
            action.execute(request);
        }
    }
}
public LicensingClient(ElasticsearchClient client) {
    this.client = client;
}

public PutLicenseRequestBuilder preparePutLicense(License license) {
    return new PutLicenseRequestBuilder(client).setLicense(license);
}

public void putLicense(PutLicenseRequest request, ActionListener<PutLicenseResponse> listener) {
    client.execute(PutLicenseAction.INSTANCE, request, listener);
}

public GetLicenseRequestBuilder prepareGetLicense() {
    return new GetLicenseRequestBuilder(client);
}

public void getLicense(GetLicenseRequest request, ActionListener<GetLicenseResponse> listener) {
    client.execute(GetLicenseAction.INSTANCE, request, listener);
}

public DeleteLicenseRequestBuilder prepareDeleteLicense() {
    return new DeleteLicenseRequestBuilder(client);
}

public void deleteLicense(DeleteLicenseRequest request, ActionListener<DeleteLicenseResponse> listener) {
    client.execute(DeleteLicenseAction.INSTANCE, request, listener);
}

public PostStartTrialRequestBuilder preparePostStartTrial() {
    return new PostStartTrialRequestBuilder(client, PostStartTrialAction.INSTANCE);
}

public GetTrialStatusRequestBuilder prepareGetStartTrial() {
    return new GetTrialStatusRequestBuilder(client, GetTrialStatusAction.INSTANCE);
}

public void postStartTrial(PostStartTrialRequest request, ActionListener<PostStartTrialResponse> listener) {
    client.execute(PostStartTrialAction.INSTANCE, request, listener);
}

public void postStartBasic(PostStartBasicRequest request, ActionListener<PostStartBasicResponse> listener) {
    client.execute(PostStartBasicAction.INSTANCE, request, listener);
}

public PostStartBasicRequestBuilder preparePostStartBasic() {
    return new PostStartBasicRequestBuilder(client, PostStartBasicAction.INSTANCE);
}
public GetBasicStatusRequestBuilder prepareGetStartBasic() {
    return new GetBasicStatusRequestBuilder(client, GetBasicStatusAction.INSTANCE);
}

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 */
package org.elasticsearch.license;

import org.elasticsearch.Version;
import org.elasticsearch.action.ActionResponse;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import org.elasticsearch.rest.RestStatus;
import java.io.IOException;
import java.util.Collections;
import java.util.HashMap;
import java.util.Map;

class PostStartTrialResponse extends ActionResponse {

    // Nodes Prior to 6.3 did not have NEED_ACKNOWLEDGEMENT as part of status
    enum Pre63Status {
        UPGRADED_TO_TRIAL,
        TRIAL_ALREADY_ACTIVATED;
    }
    enum Status {
        UPGRADED_TO_TRIAL(true, null, RestStatus.OK),
        TRIAL_ALREADY_ACTIVATED(false, "Operation failed: Trial was already activated.",
        RestStatus.FORBIDDEN),
        NEED_ACKNOWLEDGEMENT(false, "Operation failed: Needs acknowledgement.", RestStatus.OK);

        private final boolean isTrialStarted;
        private final String errorMessage;
        private final RestStatus restStatus;
        Status(boolean isTrialStarted, String errorMessage, RestStatus restStatus) {
            this.isTrialStarted = isTrialStarted;
            this.errorMessage = errorMessage;
            this.restStatus = restStatus;
        }

        boolean isTrialStarted() {
            return isTrialStarted;
        }
    }

    private final boolean isTrialStarted;
    private final String errorMessage;
    private final RestStatus restStatus;
    Status(boolean isTrialStarted, String errorMessage, RestStatus restStatus) {
        this.isTrialStarted = isTrialStarted;
        this.errorMessage = errorMessage;
        this.restStatus = restStatus;
    }

    boolean isTrialStarted() {
        return isTrialStarted;
    }
}
String getErrorMessage() {
    return errorMessage;
}

RestStatus getRestStatus() {
    return restStatus;
}

private Status status;
private Map<String, String[]> acknowledgeMessages;
private String acknowledgeMessage;

PostStartTrialResponse() {
}

PostStartTrialResponse(Status status) {
    this(status, Collections.emptyMap(), null);
}

PostStartTrialResponse(Status status, Map<String, String[]> acknowledgeMessages, String acknowledgeMessage) {
    this.status = status;
    this.acknowledgeMessages = acknowledgeMessages;
    this.acknowledgeMessage = acknowledgeMessage;
}

public Status getStatus() {
    return status;
}

@Override
public void readFrom(StreamInput in) throws IOException {
    status = in.readEnum(Status.class);
    if (in.getVersion().onOrAfter(Version.V_6_3_0)) {
        acknowledgeMessage = in.readOptionalString();
        int size = in.readVInt();
        Map<String, String[]> acknowledgeMessages = new HashMap<>(size);
        for (int i = 0; i < size; i++) {
            String feature = in.readString();
            int nMessages = in.readVInt();
            String[] messages = new String[nMessages];
            for (int j = 0; j < nMessages; j++) {
                messages[j] = in.readString();
            }
            acknowledgeMessages.put(feature, messages);
        }
    }
}
this.acknowledgeMessages = acknowledgeMessages;
} else {
    this.acknowledgeMessages = Collections.emptyMap();
}

@Override
public void writeTo(StreamOutput out) throws IOException {
    Version version = Version.V_6_3_0;
    if (out.getVersion().onOrAfter(version)) {
        out.writeEnum(status);
        out.writeOptionalString(acknowledgeMessage);
        out.writeVInt(acknowledgeMessages.size());
        for (Map.Entry<String, String[]> entry : acknowledgeMessages.entrySet()) {
            out.writeString(entry.getKey());
            out.writeVInt(entry.getValue().length);
            for (String message : entry.getValue()) {
                out.writeString(message);
            }
        }
    } else {
        if (status == Status.UPGRADED_TO_TRIAL) {
            out.writeEnum(Pre63Status.UPGRADED_TO_TRIAL);
        } else if (status == Status.TRIAL_ALREADY_ACTIVATED) {
            out.writeEnum(Pre63Status.TRIAL_ALREADY_ACTIVATED);
        } else {
            throw new IllegalArgumentException("Starting trial on node with version 
[" + Version.CURRENT + "] requires " + "acknowledgement parameter.");
        }
    }
}

Map<String, String[]> getAcknowledgementMessages() {
    return acknowledgeMessages;
}

String getAcknowledgementMessage() {
    return acknowledgeMessage;
}

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 */
import org.elasticsearch.action.ActionRequest;
import org.elasticsearch.action.ActionResponse;
import org.elasticsearch.cluster.NamedDiff;
import org.elasticsearch.cluster.metadata.IndexNameExpressionResolver;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.cluster.node.DiscoveryNodes;
import org.elasticsearch.common.ParseField;
import org.elasticsearch.common.io.stream.NamedWriteableRegistry;
import org.elasticsearch.common.settings.ClusterSettings;
import org.elasticsearch.common.settings.IndexScopedSettings;
import org.elasticsearch.common.settings.Setting;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.settings.SettingsFilter;
import org.elasticsearch.common.xcontent.NamedXContentRegistry;
import org.elasticsearch.plugins.ActionPlugin;
import org.elasticsearch.rest.RestController;
import org.elasticsearch.rest.RestHandler;

import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collections;
import java.util.List;
import java.util.function.Supplier;
import static org.elasticsearch.xpack.core.XPackClientActionPlugin.isTribeNode;
import static org.elasticsearch.xpack.core.XPackPlugin.transportClientMode;

public class Licensing implements ActionPlugin {

    public static final String NAME = "license";
    protected final Settings settings;
    private final boolean isTransportClient;
    private final boolean isTribeNode;

    // Until this is moved out to its own plugin (its currently in XPackPlugin.java, we need to make sure that any edits
to this file
    // are also carried out in XPackClientPlugin.java
    public List<NamedWriteableRegistry.Entry> getNamedWriteables() {
        List<NamedWriteableRegistry.Entry> entries = new ArrayList<>();
        entries.add(new NamedWriteableRegistry.Entry(MetaData.Custom.class, LicensesMetaData.TYPE,
                                                      LicensesMetaData::new));
        entries.add(new NamedWriteableRegistry.Entry(NamedDiff.class, LicensesMetaData.TYPE,
                                                     LicensesMetaData::readDiffFrom));
        return entries;
    }

    // Until this is moved out to its own plugin (its currently in XPackPlugin.java, we need to make sure that any edits
to this file
    // are also carried out in XPackClientPlugin.java
    public List<NamedXContentRegistry.Entry> getNamedXContent() {
        List<NamedXContentRegistry.Entry> entries = new ArrayList<>();
        // Metadata
        entries.add(new NamedXContentRegistry.Entry(MetaData.Custom.class, new
            ParseField(LicensesMetaData.TYPE),
            LicensesMetaData::fromXContent));
        return entries;
    }
    
    public Licensing(Settings settings) {
        this.settings = settings;
        isTransportClient = transportClientMode(settings);
        isTribeNode = isTribeNode(settings);
    }
    
    @Override
    public List<ActionHandler<? extends ActionRequest, ? extends ActionResponse>> getActions() {
        if (isTribeNode) {
            return Collections.singletonList(new ActionHandler<>(GetLicenseAction.INSTANCE,
                TransportGetLicenseAction.class));
        }
        return Arrays.asList(new ActionHandler<>(PutLicenseAction.INSTANCE, TransportPutLicenseAction.class),
            new ActionHandler<>(GetLicenseAction.INSTANCE, TransportGetLicenseAction.class),
            new ActionHandler<>(DeleteLicenseAction.INSTANCE, TransportDeleteLicenseAction.class),
            new ActionHandler<>(PostStartTrialAction.INSTANCE, TransportPostStartTrialAction.class),
            new ActionHandler<>(GetTrialStatusAction.INSTANCE, TransportGetTrialStatusAction.class),
            new ActionHandler<>(PostStartBasicAction.INSTANCE, TransportPostStartBasicAction.class),
            new ActionHandler<>(GetBasicStatusAction.INSTANCE, TransportGetBasicStatusAction.class));
    }
    
    @Override
    public List<RestHandler> getRestHandlers(Settings settings, RestController restController, ClusterSettings
        clusterSettings,
        IndexScopedSettings indexScopedSettings, SettingsFilter settingsFilter, IndexNameExpressionResolver
        indexNameExpressionResolver,
        Supplier<DiscoveryNodes> nodesInCluster) {
        List<RestHandler> handlers = new ArrayList<>();
        handlers.add(new RestGetLicenseAction(settings, restController));
        if (false == isTribeNode) {
            handlers.add(new RestPutLicenseAction(settings, restController));
            handlers.add(new RestDeleteLicenseAction(settings, restController));
            handlers.add(new RestGetTrialStatus(settings, restController));
            handlers.add(new RestGetBasicStatus(settings, restController));
            handlers.add(new RestPostStartTrialLicense(settings, restController));
            handlers.add(new RestPostStartBasicLicense(settings, restController));
        }
    }
return handlers;
}

// Until this is moved out to its own plugin (its currently in XPackPlugin.java, we need to make sure that any edits to this file
// are also carried out in XPackClientPlugin.java
public List<Setting<?>> getSettings() {
    // TODO convert this wildcard to a real setting
    return Collections.singletonList(Setting.groupSetting("license.", Setting.Property.NodeScope));
}

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* /
package org.elasticsearch.license;

import org.elasticsearch.action.ActionRequestValidationException;
import org.elasticsearch.action.support.master.MasterNodeReadRequest;

public class GetLicenseRequest extends MasterNodeReadRequest<GetLicenseRequest> {

    public GetLicenseRequest() {
    }

    @Override
    public ActionRequestValidationException validate() {
        return null;
    }
}

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* /
package org.elasticsearch.xpack.core.security.authz.permission;

import org.apache.logging.log4j.Logger;
import org.apache.lucene.util.automaton.Automaton;
import org.apache.lucene.util.automaton.Operations;
import org.elasticsearch.common.collect.Tuple;
import org.elasticsearch.common.logging.Loggers;
import org.elasticsearch.xpack.core.security.authz.ApplicationPrivilege;
import org.elasticsearch.xpack.core.security.support.Automatons;

import org.apache.logging.log4j.LogManager;
import org.apache.logging.log4j.Logger;
import org.elasticsearch.xpack.core.security.authz.ApplicationPrivilege;
import org.elasticsearch.xpack.core.security.support.Automatons;

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import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collections;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import java.util.Set;
import java.util.function.Predicate;

/**
 * A permission that is based on privileges for application (non elasticsearch) capabilities
 */
public final class ApplicationPermission {

    public static final ApplicationPermission NONE = new ApplicationPermission(Collections.emptyList());

    private final Logger logger;
    private final List<PermissionEntry> permissions;

    /**
     * @param privilegesAndResources A list of (privilege, resources). Each element in the [ @link List] is a [ @link Tuple] containing
     * a single [ @link ApplicationPrivilege] and the [ @link Set] of resources to which that
     * privilege is
     * applied. The resources are treated as a wildcard [ @link Automatons#pattern].
     */
    ApplicationPermission(List<Tuple<ApplicationPrivilege, Set<String>>> privilegesAndResources) {
        this.logger = Loggers.getLogger(getClass());
        Map<ApplicationPrivilege, PermissionEntry> permissionsByPrivilege = new HashMap<>();
        privilegesAndResources.forEach(tup -> permissionsByPrivilege.compute(tup.v1(), (k, existing) -> {
            final Automaton patterns = Automatons.patterns(tup.v2());
            if (existing == null) {
                return new PermissionEntry(k, patterns);
            } else {
                return new PermissionEntry(k, Automatons.unionAndMinimize(Arrays.asList(existing.resources,
                    patterns)));
            }
        }));
        this.permissions = Collections.unmodifiableList(new ArrayList<>(permissionsByPrivilege.values()));
    }

    /**
     * Determines whether this permission grants the specified privilege on the given resource.
     * <p>
     * An [ @link ApplicationPermission] consists of a sequence of permission entries, where each entry contains a single
     * [ @link ApplicationPrivilege] and one or more resource patterns.
     */
    }
This method returns `true` if, one or more of those entries meet the following criteria:

- The entry's application, when interpreted as an `Automaton` pattern matches the application given in the argument (interpreted as a raw string).
- The `Automaton` that defines the entry's actions entirely covers the automaton given in the argument (that is, the argument is a subset of the entry's automaton).
- The entry's resources, when interpreted as an `Automaton` set of patterns entirely covers the resource given in the argument (also interpreted as an `Automaton` pattern).

```java
public boolean grants(ApplicationPrivilege other, String resource) {
    Automaton resourceAutomaton = Automatons.patterns(resource);
    final boolean matched = permissions.stream().anyMatch(e -> e.grants(other, resourceAutomaton));
    logger.trace("Permission [{}] {} grant [{} , {}]", this, matched ? "does" : "does not", other, resource);
    return matched;
}
```

```java
@Override
public String toString() {
    return getClass().getSimpleName() + "{privileges=\" + permissions + \")\";
}
```

```java
private static class PermissionEntry {
    private final ApplicationPrivilege privilege;
    private final Predicate<String> application;
    private final Automaton resources;
    private PermissionEntry(ApplicationPrivilege privilege, Automaton resources) {
        this.privilege = privilege;
        this.application = Automatons.predicate(privilege.getApplication());
        this.resources = resources;
    }

    private boolean grants(ApplicationPrivilege other, Automaton resource) {
        return this.application.test(other.getApplication())
        && Operations.isEmpty(privilege.getAutomaton()) == false
        && Operations.subsetOf(other.getAutomaton(), privilege.getAutomaton())
        && Operations.subsetOf(resource, this.resources);
    }
}
```
@Override
public String toString() {
    return privilege.toString();
}
}
} /*
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*/
package org.elasticsearch.xpack.core.security.authz.permission;

import org.apache.lucene.index.DirectoryReader;
import org.apache.lucene.util.Accountable;
import org.apache.lucene.util.RamUsageEstimator;
import org.apache.lucene.util.automaton.Automata;
import org.apache.lucene.util.automaton.Automaton;
import org.apache.lucene.util.automaton.CharacterRunAutomaton;
import org.apache.lucene.util.automaton.MinimizationOperations;
import org.apache.lucene.util.automaton.Operations;
import org.elasticsearch.ElasticsearchSecurityException;
import org.elasticsearch.common.Strings;
import org.elasticsearch.common.regex.Regex;
import org.elasticsearch.index.mapper.AllFieldMapper;
import org.elasticsearch.xpack.core.security.authz.FieldPermissionsDefinition.FieldGrantExcludeGroup;
import org.elasticsearch.xpack.core.security.support.Automatons;
import java.io.IOException;
import java.util.Arrays;
import java.util.HashMap;
import java.util.HashSet;
import java.util.List;
import java.util.Set;
import java.util.stream.Collectors;
import static org.apache.lucene.util.automaton.Operations.subsetOf;

/**
 * Stores patterns to fields which access is granted or denied to and maintains an automaton that can be used to check
 * if permission is
 * allowed for a specific field.
 * Field permissions are configured via a list of strings that are patterns a field has to match. Two lists determine
 * whether or
 * not a field is granted access to:
 * 1. It has to match the patterns in grantedFieldsArray
 */
import java.io.IOException;
import java.util.Arrays;
import java.util.HashMap;
import java.util.HashSet;
import java.util.List;
import java.util.Set;
import java.util.stream.Collectors;
import static org.apache.lucene.util.automaton.Operations.subsetOf;

/**
 * Stores patterns to fields which access is granted or denied to and maintains an automaton that can be used to check
 * if permission is
 * allowed for a specific field.
 * Field permissions are configured via a list of strings that are patterns a field has to match. Two lists determine
 * whether or
 * not a field is granted access to:
 * 1. It has to match the patterns in grantedFieldsArray
 */
public final class FieldPermissions implements Accountable {

    public static final FieldPermissions DEFAULT = new FieldPermissions();

    private static final long BASE_FIELD_PERM_DEF_BYTES = RamUsageEstimator.shallowSizeOf(new FieldPermissionsDefinition(null, null));
    private static final long BASE_FIELD_GROUP_BYTES = RamUsageEstimator.shallowSizeOf(new FieldGrantExcludeGroup(null, null));
    private static final long BASE_HASHSET_SIZE = RamUsageEstimator.shallowSizeOfInstance(HashSet.class);
    private static final long BASE_HASHSET_ENTRY_SIZE;
    static {
        HashMap<String, Object> map = new HashMap<>();
        map.put(FieldPermissions.class.getName(), new Object());
        long mapEntryShallowSize = RamUsageEstimator.shallowSizeOf(map.entrySet().iterator().next());
        // assume a load factor of 50%
        // for each entry, we need two object refs, one for the entry itself
        // and one for the free space that is due to the fact hash tables can
        // not be fully loaded
        BASE_HASHSET_ENTRY_SIZE = mapEntryShallowSize + 2 * RamUsageEstimator.NUM_BYTES_OBJECT_REF;
    }

    private final FieldPermissionsDefinition fieldPermissionsDefinition;
    // an automaton that represents a union of one more sets of permitted and denied fields
    private final CharacterRunAutomaton permittedFieldsAutomaton;
    private final boolean permittedFieldsAutomatonIsTotal;
    private final Automaton originalAutomaton;

    private final long ramBytesUsed;

    /** Constructor that does not enable field-level security: all fields are accepted. */
    public FieldPermissions() {
        this(new FieldPermissionsDefinition(null, null), Automatons.MATCH_ALL);
    }

    /** Constructor that enables field-level security based on include/exclude rules. Exclude rules
     *  have precedence over include rules. */
    public FieldPermissions(FieldPermissionsDefinition fieldPermissionsDefinition) {
        this(fieldPermissionsDefinition, initializePermittedFieldsAutomaton(fieldPermissionsDefinition));
    }

    /** Constructor that enables field-level security based on include/exclude rules. Exclude rules
     *  have precedence over include rules. */
    FieldPermissions(FieldPermissionsDefinition fieldPermissionsDefinition, Automaton permittedFieldsAutomaton) {
        if (permittedFieldsAutomaton.isDeterministic() == false && permittedFieldsAutomaton.getNumStates() > 1) {
            // code continues here...
        }
    }
// we only accept deterministic automata so that the CharacterRunAutomaton constructor
// directly wraps the provided automaton
    throw new IllegalArgumentException("Only accepts deterministic automata");
    }
    this.fieldPermissionsDefinition = fieldPermissionsDefinition;
    this.originalAutomaton = permittedFieldsAutomaton;
    this.permittedFieldsAutomaton = new CharacterRunAutomaton(permittedFieldsAutomaton);
    // we cache the result of isTotal since this might be a costly operation
    this.permittedFieldsAutomatonIsTotal = Operations.isTotal(permittedFieldsAutomaton);

    long ramBytesUsed = BASE_FIELD_PERM_DEF_BYTES;

    for (FieldGrantExcludeGroup group : fieldPermissionsDefinition.getFieldGrantExcludeGroups()) {
        ramBytesUsed += BASE_FIELD_GROUP_BYTES + BASE_HASHSET_ENTRY_SIZE;
        if (group.getGrantedFields() != null) {
            ramBytesUsed += RamUsageEstimator.shallowSizeOf(group.getGrantedFields());
        }
        if (group.getExcludedFields() != null) {
            ramBytesUsed += RamUsageEstimator.shallowSizeOf(group.getExcludedFields());
        }
    }
    ramBytesUsed += permittedFieldsAutomaton.ramBytesUsed();
    ramBytesUsed += runAutomatonRamBytesUsed(permittedFieldsAutomaton);
    this.ramBytesUsed = ramBytesUsed;

    /**
     * Return an estimation of the ram bytes used by a CharacterRunAutomaton
     * that wraps the given automaton.
     */
    private static long runAutomatonRamBytesUsed(Automaton a) {
        return a.getNumStates() * 5; // wild guess, better than 0
    }

    public static Automaton initializePermittedFieldsAutomaton(FieldPermissionsDefinition
    fieldPermissionsDefinition) {
        Set<FieldGrantExcludeGroup> groups = fieldPermissionsDefinition.getFieldGrantExcludeGroups();
        assert groups.size() > 0 : "there must always be a single group for field inclusion/exclusion";
        List<Automaton> automatonList =
        .map(g -> FieldPermissions.initializePermittedFieldsAutomaton(g.getGrantedFields(),
        g.getExcludedFields()))
        .collect(Collectors.toList());
        return Automatons.unionAndMinimize(automatonList);
    }

    private static Automaton initializePermittedFieldsAutomaton(final String[] grantedFields, final String[]
    deniedFields) {

Automaton grantedFieldsAutomaton;
if (grantedFields == null || Arrays.stream(grantedFields).anyMatch(Regex::isMatchAllPattern)) {
    grantedFieldsAutomaton = Automatons.MATCH_ALL;
} else {
    // an automaton that includes metadata fields, including join fields created by the _parent field such
    // as _parent#type
    Automaton metaFieldsAutomaton = Operations.concatenate(Automata.makeChar('_'),
        Automata.makeAnyString());
    grantedFieldsAutomaton = Operations.union(Automatons.patterns(grantedFields), metaFieldsAutomaton);
}

Automaton deniedFieldsAutomaton;
if (deniedFields == null || deniedFields.length == 0) {
    deniedFieldsAutomaton = Automatons.EMPTY;
} else {
    deniedFieldsAutomaton = Automatons.patterns(deniedFields);
}

grantedFieldsAutomaton = MinimizationOperations.minimize(grantedFieldsAutomaton,
    Operations.DEFAULT_MAX_DETERMINIZED_STATES);
deniedFieldsAutomaton = MinimizationOperations.minimize(deniedFieldsAutomaton,
    Operations.DEFAULT_MAX_DETERMINIZED_STATES);

if (subsetOf(deniedFieldsAutomaton, grantedFieldsAutomaton) == false) {
    throw new ElasticsearchSecurityException("Exceptions for field permissions must be a subset of the " +
        "granted fields but " + Strings.arrayToCommaDelimitedString(deniedFields) + " is not a subset of " +
        Strings.arrayToCommaDelimitedString(grantedFields));
}

if (!containsAllField(grantedFields) && !containsAllField(deniedFields)) {
    // It is not explicitly stated whether _all should be allowed/denied
    // In that case we automatically disable _all, unless all fields would match
    if (Operations.isTotal(grantedFieldsAutomaton) && Operations.isEmpty(deniedFieldsAutomaton)) {
        // all fields are accepted, so using _all is fine
    } else {
        deniedFieldsAutomaton = Operations.union(deniedFieldsAutomaton,
            Automata.makeString(AllFieldMapper.NAME));
    }
}

grantedFieldsAutomaton = Automatons.minusAndMinimize(grantedFieldsAutomaton,
    deniedFieldsAutomaton);
return grantedFieldsAutomaton;

private static boolean containsAllField(String[] fields) {
    return fields != null && Arrays.stream(fields).anyMatch(AllFieldMapper.NAME::equals);
}
/**
 * Returns true if this field permission policy allows access to the field and false if not.
 * fieldName can be a wildcard.
 */
public boolean grantsAccessTo(String fieldName) {
    return permittedFieldsAutomatonIsTotal || permittedFieldsAutomaton.run(fieldName);
}

FieldPermissionsDefinition getFieldPermissionsDefinition() {
    return fieldPermissionsDefinition;
}

/**
 * Return whether field-level security is enabled, ie. whether any field might be filtered out. */
public boolean hasFieldLevelSecurity() {
    return permittedFieldsAutomatonIsTotal == false;
}

/**
 * Return a wrapped reader that only exposes allowed fields. */
public DirectoryReader filter(DirectoryReader reader) throws IOException {
    if (hasFieldLevelSecurity() == false) {
        return reader;
    }
    return FieldSubsetReader.wrap(reader, permittedFieldsAutomaton);
}

// for testing only
Automaton getIncludeAutomaton() {
    return originalAutomaton;
}

@Override
public boolean equals(Object o) {
    if (this == o) return true;
    if (o == null || getClass() != o.getClass()) return false;
    FieldPermissions that = (FieldPermissions) o;
    if (permittedFieldsAutomatonIsTotal != that.permittedFieldsAutomatonIsTotal) return false;
    return fieldPermissionsDefinition != null ?
        fieldPermissionsDefinition.equals(that.fieldPermissionsDefinition) : that.fieldPermissionsDefinition ==
        null;
}

@Override
public int hashCode() {
    int result = fieldPermissionsDefinition != null ? fieldPermissionsDefinition.hashCode() : 0;
    result = 31 * result + (permittedFieldsAutomatonIsTotal ? 1 : 0);
    return result;
}
```java
return result;
}

@Override
public long ramBytesUsed() {
    return ramBytesUsed;
}

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* or more contributor license agreements. Licensed under the Elastic License;
* you may not use this file except in compliance with the Elastic License.
*/
package org.elasticsearch.xpack.core.security.authz.permission;

import org.elasticsearch.transport.TransportRequest;
import org.elasticsearch.xpack.core.security.authz.privilege.ClusterPrivilege;
import org.elasticsearch.xpack.core.security.authz.privilege.ConditionalClusterPrivilege;
import java.util.Collection;
import java.util.Set;
import java.util.function.Predicate;
import java.util.stream.Collectors;

/**
 * A permission that is based on privileges for cluster wide actions, with the optional ability to inspect the request
 * object
 */
public abstract class ClusterPermission {
    private final ClusterPrivilege privilege;

    ClusterPermission(ClusterPrivilege privilege) {
        this.privilege = privilege;
    }

    public ClusterPrivilege privilege() {
        return privilege;
    }

    public abstract boolean check(String action, TransportRequest request);

    /**
     * A permission that is based solely on cluster privileges and does not consider request state
     */
    public static class SimpleClusterPermission extends ClusterPermission {

        public static final SimpleClusterPermission NONE = new SimpleClusterPermission(ClusterPrivilege.NONE);
```
private final Predicate<String> predicate;

SimpleClusterPermission(ClusterPrivilege privilege) {
    super(privilege);
    this.predicate = privilege.predicate();
}

@Override
public boolean check(String action, TransportRequest request) {
    return predicate.test(action);
}

/**
 * A permission that makes use of both cluster privileges and request inspection
 */
public static class ConditionalClusterPermission extends ClusterPermission {
    private final Predicate<String> actionPredicate;
    private final Predicate<TransportRequest> requestPredicate;

    public ConditionalClusterPermission(ConditionalClusterPrivilege conditionalPrivilege) {
        this(conditionalPrivilege.getPrivilege(), conditionalPrivilege.getRequestPredicate());
    }

    public ConditionalClusterPermission(ClusterPrivilege privilege, Predicate<TransportRequest> requestPredicate) {
        super(privilege);
        this.actionPredicate = privilege.predicate();
        this.requestPredicate = requestPredicate;
    }

    @Override
    public boolean check(String action, TransportRequest request) {
        return actionPredicate.test(action) && requestPredicate.test(request);
    }
}

/**
 * A permission that composes a number of other cluster permissions
 */
public static class CompositeClusterPermission extends ClusterPermission {
    private final Collection<ClusterPermission> children;

    public CompositeClusterPermission(Collection<ClusterPermission> children) {
        super(buildPrivilege(children));
        this.children = children;
    }
}

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private static ClusterPrivilege buildPrivilege(Collection<ClusterPermission> children) {
    final Set<String> names = children.stream()
        .map(ClusterPermission::privilege)
        .map(ClusterPrivilege::name)
        .flatMap(Set::stream)
        .collect(Collectors.toSet());
    return ClusterPrivilege.get(names);
}

@Override
public boolean check(String action, TransportRequest request) {
    return children.stream().anyMatch(p -> p.check(action, request));
}

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 * or more contributor license agreements. Licensed under the Elastic License;
 * you may not use this file except in compliance with the Elastic License.
 */
package org.elasticsearch.xpack.core.security.authz.permission;

import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.common.Nullable;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.collect.Tuple;
import org.elasticsearch.common.util.set.Sets;
import org.elasticsearch.xpack.core.security.authz.RoleDescriptor;
import org.elasticsearch.xpack.core.security.authz.accesscontrol.IndicesAccessControl;
import org.elasticsearch.xpack.core.security.authz.privilege.ApplicationPrivilege;
import org.elasticsearch.xpack.core.security.authz.privilege.ClusterPrivilege;
import org.elasticsearch.xpack.core.security.authz.privilege.ConditionalClusterPrivilege;
import org.elasticsearch.xpack.core.security.authz.privilege.IndexPrivilege;
import org.elasticsearch.xpack.core.security.authz.privilege.Privilege;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collections;
import java.util.List;
import java.util.Map;
import java.util.Objects;
import java.util.Set;
public final class Role {
    public static final Role EMPTY = Role.builder("_empty").build();

    private final String[] names;
private final ClusterPermission cluster;
private final IndicesPermission indices;
private final ApplicationPermission application;
private final RunAsPermission runAs;

Role(String[] names, ClusterPermission cluster, IndicesPermission indices, ApplicationPermission application,
RunAsPermission runAs) {
    this.names = names;
    this.cluster = Objects.requireNonNull(cluster);
    this.indices = Objects.requireNonNull(indices);
    this.application = Objects.requireNonNull(application);
    this.runAs = Objects.requireNonNull(runAs);
}

public String[] names() {
    return names;
}

public ClusterPermission cluster() {
    return cluster;
}

public IndicesPermission indices() {
    return indices;
}

public ApplicationPermission application() {
    return application;
}

public RunAsPermission runAs() {
    return runAs;
}

public static Builder builder(String... names) {
    return new Builder(names, null);
}

public static Builder builder(String[] names, FieldPermissionsCache fieldPermissionsCache) {
    return new Builder(names, fieldPermissionsCache);
}

public static Builder builder(RoleDescriptor rd, FieldPermissionsCache fieldPermissionsCache) {
    return new Builder(rd, fieldPermissionsCache);
}

/**
 * Returns whether at least one group encapsulated by this indices permissions is authorized to execute the
specified action with the requested indices/aliases. At the same time if field and/or document level security
is configured for any group also the allowed fields and role queries are resolved.

public IndicesAccessControl authorize(String action, Set<String> requestedIndicesOrAliases, MetaData
metaData,

FieldPermissionsCache fieldPermissionsCache) {
Map<String, IndicesAccessControl.IndexAccessControl> indexPermissions = indices.authorize(
action, requestedIndicesOrAliases, metaData, fieldPermissionsCache
);

// At least one role / indices permission set need to match with all the requested indices/aliases:
boolean granted = true;
for (Map.Entry<String, IndicesAccessControl.IndexAccessControl> entry : indexPermissions.entrySet()) {
    if (!entry.getValue().isGranted()) {
        granted = false;
        break;
    }
}
return new IndicesAccessControl(granted, indexPermissions);
}

public static class Builder {

    private final String[] names;
    private ClusterPermission cluster = ClusterPermission.SimpleClusterPermission.NONE;
    private RunAsPermission runAs = RunAsPermission.NONE;
    private List<IndicesPermission.Group> groups = new ArrayList<>();
    private FieldPermissionsCache fieldPermissionsCache = null;
    private List<Tuple<ApplicationPrivilege, Set<String>>> applicationPrivs = new ArrayList<>();

    private Builder(String[] names, FieldPermissionsCache fieldPermissionsCache) {
        this.names = names;
        this.fieldPermissionsCache = fieldPermissionsCache;
    }

    private Builder(RoleDescriptor rd, @Nullable FieldPermissionsCache fieldPermissionsCache) {
        this.names = new String[] { rd.getName() };
        this.fieldPermissionsCache = fieldPermissionsCache;
        cluster(Sets.newHashSet(rd.getClusterPrivileges()), Arrays.asList(rd.getConditionalClusterPrivileges()));
        groups.addAll(convertFromIndicesPrivileges(rd.getIndicesPrivileges(), fieldPermissionsCache));

        final RoleDescriptor.ApplicationResourcePrivileges[] applicationPrivileges = rd.getApplicationPrivileges();
        for (int i = 0; i < applicationPrivileges.length; i++) {
            applicationPrivs.add(convertApplicationPrivilege(rd.getName(), i, applicationPrivileges[i]));
        }

        String[] rdRunAs = rd.getRunAs();
        if (rdRunAs != null && rdRunAs.length > 0) {

this.runAs(new Privilege(Sets.newHashSet(rdRunAs), rdRunAs));
}
}

public Builder cluster(Set<String> privilegeNames, Iterable<ConditionalClusterPrivilege> conditionalClusterPrivileges) {
    List<ClusterPermission> clusterPermissions = new ArrayList<>();
    if (privilegeNames.isEmpty() == false) {
        clusterPermissions.add(new ClusterPermission.SimpleClusterPermission(ClusterPrivilege.get(privilegeNames)));
    }
    for (ConditionalClusterPrivilege ccp : conditionalClusterPrivileges) {
        clusterPermissions.add(new ClusterPermission.ConditionalClusterPermission(ccp));
    }
    if (clusterPermissions.isEmpty()) {
        this.cluster = ClusterPermission.SimpleClusterPermission.NONE;
    } else if (clusterPermissions.size() == 1) {
        this.cluster = clusterPermissions.get(0);
    } else {
        this.cluster = new ClusterPermission.CompositeClusterPermission(clusterPermissions);
    }
    return this;
}

/**
 * @deprecated Use @link #cluster(Set, Iterable)
 */
@Deprecated
public Builder cluster(ClusterPrivilege privilege) {
    cluster = new ClusterPermission.SimpleClusterPermission(privilege);
    return this;
}

public Builder runAs(Privilege privilege) {
    runAs = new RunAsPermission(privilege);
    return this;
}

public Builder add(IndexPrivilege privilege, String... indices) {
    groups.add(new IndicesPermission.Group(privilege, FieldPermissions.DEFAULT, null, indices));
    return this;
}

public Builder add(FieldPermissions fieldPermissions, Set<BytesReference> query, IndexPrivilege privilege, String... indices) {
    groups.add(new IndicesPermission.Group(privilege, fieldPermissions, query, indices));
    return this;
}
public Builder addApplicationPrivilege(ApplicationPrivilege privilege, Set<String> resources) {
    applicationPrivs.add(new Tuple<>(privilege, resources));
    return this;
}

public Role build() {
    IndicesPermission indices = groups.isEmpty() ? IndicesPermission.NONE :
        new IndicesPermission(groups.toArray(new IndicesPermission.Group[groups.size()]));
    final ApplicationPermission applicationPermission
        = applicationPrivs.isEmpty() ? ApplicationPermission.NONE : new
        ApplicationPermission(applicationPrivs);
    return new Role(names, cluster, indices, applicationPermission, runAs);
}

static List<IndicesPermission.Group> convertFromIndicesPrivileges(RoleDescriptor.IndicesPrivileges[]
    indicesPrivileges,
    @Nullable FieldPermissionsCache fieldPermissionsCache) {
    List<IndicesPermission.Group> list = new ArrayList<>(indicesPrivileges.length);
    for (RoleDescriptor.IndicesPrivileges privilege : indicesPrivileges) {
        final FieldPermissions fieldPermissions;
        if (fieldPermissionsCache != null) {
            fieldPermissions = fieldPermissionsCache.getFieldPermissions(privilege.getGrantedFields(),
                privilege.getDeniedFields());
        } else {
            fieldPermissions = new FieldPermissions(
                new FieldPermissionsDefinition(privilege.getGrantedFields(), privilege.getDeniedFields()));
        }
        final Set<BytesReference> query = privilege.getQuery() == null ? null :
            Collections.singleton(privilege.getQuery());
        list.add(new IndicesPermission.Group(IndexPrivilege.get(Sets.newHashSet(privilege.getPrivileges())),
            fieldPermissions, query, privilege.getIndices()));
    }
    return list;
}

static Tuple<ApplicationPrivilege, Set<String>> convertApplicationPrivilege(String role, int index,
    RoleDescriptor.ApplicationResourcePrivileges arp) {
    return new Tuple<>(new ApplicationPrivilege(arp.getApplication(),
        "role." + role.replaceAll("[^a-zA-Z0-9-]", "\"\") + "," + index,
        arp.getPrivileges()), Sets.newHashSet(arp.getResources()));
}
package org.elasticsearch.xpack.core.security.authz.permission;

import org.apache.lucene.util.automaton.Automaton;
import org.apache.lucene.util.automaton.TooComplexToDeterminizeException;
import org.elasticsearch.ElasticsearchSecurityException;
import org.elasticsearch.cluster.metadata.AliasOrIndex;
import org.elasticsearch.cluster.metadata.IndexMetaData;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.common.Nullable;
import org.elasticsearch.common.Strings;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.logging.Loggers;
import org.elasticsearch.xpack.core.security.authz.accesscontrol.IndicesAccessControl;
import org.elasticsearch.xpack.core.security.authz.privilege.IndexPrivilege;
import org.elasticsearch.xpack.core.security.support.Automatons;

import java.util.ArrayList;
import java.util.Arrays;
import java.util.HashMap;
import java.util.HashSet;
import java.util.Iterator;
import java.util.List;
import java.util.Map;
import java.util.Objects;
import java.util.Set;
import java.util.SortedMap;
import java.util.concurrent.ConcurrentHashMap;
import java.util.function.Function;
import java.util.function.Predicate;
import static java.util.Collections.unmodifiableMap;
import static java.util.Collections.unmodifiableSet;

/**
 * A permission that is based on privileges for index related actions executed
 * on specific indices
 */
public final class IndicesPermission implements Iterable<IndicesPermission.Group> {
    public static final IndicesPermission NONE = new IndicesPermission();

    private final Function<String, Predicate<String>> loadingFunction;

    /**
     * A permission that is based on privileges for index related actions executed
     * on specific indices
     */
    public final class IndicesPermission implements Iterable<IndicesPermission.Group> { }

    public static final IndicesPermission NONE = new IndicesPermission();

    private final Function<String, Predicate<String>> loadingFunction;
private final ConcurrentHashMap<String, Predicate<String>> allowedIndicesMatchersForAction = new ConcurrentHashMap<>();

private final Group[] groups;

public IndicesPermission(Group... groups) {
    this.groups = groups;
    loadingFunction = (action) -> {
        List<String> indices = new ArrayList<>();
        for (Group group : groups) {
            if (group.actionMatcher.test(action)) {
                indices.addAll(Arrays.asList(group.indices));
            }
        }
        return indexMatcher(indices);
    };
}

static Predicate<String> indexMatcher(List<String> indices) {
    try {
        return Automatons.predicate(indices);
    } catch (TooComplexToDeterminizeException e) {
        Loggers.getLogger(IndicesPermission.class).debug("Index pattern automaton \[\{}\] is too complex", indices);
        String description = Strings.collectionToCommaDelimitedString(indices);
        if (description.length() > 80) {
            description = Strings.cleanTruncate(description, 80) + "...";
        }
        throw new ElasticsearchSecurityException("The set of permitted index patterns \[\{}\] is too complex to evaluate", e, description);
    }
}

@Override
public Iterator<Group> iterator() {
    return Arrays.asList(groups).iterator();
}

public Group[] groups() {
    return groups;
}

/**
 * @return A predicate that will match all the indices that this permission
 * has the privilege for executing the given action on.
 */
public Predicate<String> allowedIndicesMatcher(String action) {
    return allowedIndicesMatchersForAction.computeIfAbsent(action, loadingFunction);
}
/**
 * Checks if the permission matches the provided action, without looking at indices.
 * To be used in very specific cases where indices actions need to be authorized regardless of their indices.
 * The usecase for this is composite actions that are initially only authorized based on the action name (indices are not
 * checked on the coordinating node), and properly authorized later at the shard level checking their indices as well.
 */
public boolean check(String action) {
    for (Group group : groups) {
        if (group.check(action)) {
            return true;
        }
    }
    return false;
}

public Automaton allowedActionsMatcher(String index) {
    List<Automaton> automatonList = new ArrayList<>();
    for (Group group : groups) {
        if (group.indexNameMatcher.test(index)) {
            automatonList.add(group.privilege.getAutomaton());
        }
    }
    return automatonList.isEmpty() ? Automatons.EMPTY : Automatons.unionAndMinimize(automatonList);
}

/**
 * Authorizes the provided action against the provided indices, given the current cluster metadata
 */
public Map<String, IndicesAccessControl.IndexAccessControl> authorize(String action, Set<String> requestedIndicesOrAliases, MetaData metaData, FieldPermissionsCache fieldPermissionsCache) {
    // now... every index that is associated with the request, must be granted
    // by at least one indices permission group

    SortedMap<String, AliasOrIndex> allAliasesAndIndices = metaData.getAliasAndIndexLookup();
    Map<String, Set<FieldPermissions>> fieldPermissionsByIndex = new HashMap<>();
    Map<String, DocumentLevelPermissions> roleQueriesByIndex = new HashMap<>();
    Map<String, Boolean> grantedBuilder = new HashMap<>();

    for (String indexOrAlias : requestedIndicesOrAliases) {
        boolean granted = false;
        Set<String> concreteIndices = new HashSet<>();
        AliasOrIndex aliasOrIndex = allAliasesAndIndices.get(indexOrAlias);
        if (aliasOrIndex != null) {
            for (IndexMetaData indexMetaData : aliasOrIndex.getIndices()) {
            ...
concreteIndices.add(indexMetaData.getIndex().getName());
}
}

for (Group group : groups) {
    if (group.check(action, indexOrAlias)) {
        granted = true;
        for (String index : concreteIndices) {
            Set<FieldPermissions> fieldPermissions = fieldPermissionsByIndex.computeIfAbsent(index, (k) ->
                    new HashSet<>());
            fieldPermissionsByIndex.put(indexOrAlias, fieldPermissions);
            fieldPermissions.add(group.getFieldPermissions());
            DocumentLevelPermissions permissions =
                    roleQueriesByIndex.computeIfAbsent(index, (k) -> new DocumentLevelPermissions());
            roleQueriesByIndex.putIfAbsent(indexOrAlias, permissions);
            if (group.hasQuery()) {
                permissions.addAll(group.getQuery());
            } else {
                // if more than one permission matches for a concrete index here and if
                // a single permission doesn't have a role query then DLS will not be
                // applied even when other permissions do have a role query
                permissions.setAllowAll(true);
            }
        }
    }
}

if (concreteIndices.isEmpty()) {
    grantedBuilder.put(indexOrAlias, granted);
} else {
    for (String concreteIndex : concreteIndices) {
        grantedBuilder.put(concreteIndex, granted);
    }
}

Map<String, IndicesAccessControl.IndexAccessControl> indexPermissions = new HashMap<>();
for (Map.Entry<String, Boolean> entry : grantedBuilder.entrySet()) {
    String index = entry.getKey();
    DocumentLevelPermissions permissions = roleQueriesByIndex.get(index);
    final Set<BytesReference> roleQueries;
    if (permissions != null && permissions.isAllowAll() == false) {
        roleQueries = unmodifiableSet(permissions.queries);
    } else {
        roleQueries = null;
    }
    Map<String, IndicesAccessControl.IndexAccessControl> indexPermissions = new HashMap<>();
    for (Map.Entry<String, Boolean> entry : grantedBuilder.entrySet()) {
        String index = entry.getKey();
        DocumentLevelPermissions permissions = roleQueriesByIndex.get(index);
        final Set<BytesReference> roleQueries;
        if (permissions != null && permissions.isAllowAll() == false) {
            roleQueries = unmodifiableSet(permissions.queries);
        } else {
            roleQueries = null;
        }
    }
}
final FieldPermissions fieldPermissions;
final Set<FieldPermissions> indexFieldPermissions = fieldPermissionsByIndex.get(index);
if (indexFieldPermissions != null && indexFieldPermissions.isEmpty() == false) {
    fieldPermissions = indexFieldPermissions.size() == 1 ? indexFieldPermissions.iterator().next() :
        fieldPermissionsCache.getFieldPermissions(indexFieldPermissions);
} else {
    fieldPermissions = FieldPermissions.DEFAULT;
}
indexPermissions.put(index, new IndicesAccessControl.IndexAccessControl(entry.getValue(),
        fieldPermissions, roleQueries));
return unmodifiableMap(indexPermissions);

public static class Group {
    private final IndexPrivilege privilege;
    private final Predicate<String> actionMatcher;
    private final String[] indices;
    private final Predicate<String> indexNameMatcher;

    public FieldPermissions getFieldPermissions() {
        return fieldPermissions;
    }

    private final FieldPermissions fieldPermissions;
    private final Set<BytesReference> query;

    public Group(IndexPrivilege privilege, FieldPermissions fieldPermissions, @Nullable Set<BytesReference>
        query, String... indices) {
        assert indices.length != 0;
        this.privilege = privilege;
        this.actionMatcher = privilege.predicate();
        this.indices = indices;
        this.indexNameMatcher = indexMatcher(Arrays.asList(indices));
        this.fieldPermissions = Objects.requireNonNull(fieldPermissions);
        this.query = query;
    }

    public IndexPrivilege privilege() {
        return privilege;
    }

    public String[] indices() {
        return indices;
    }

    @Nullable
    public Set<BytesReference> getQuery() {
        return query;
    }
}
private boolean check(String action) {
    return actionMatcher.test(action);
}

private boolean check(String action, String index) {
    assert index != null;
    return check(action) && indexNameMatcher.test(index);
}

boolean hasQuery() {
    return query != null;
}

private static class DocumentLevelPermissions {

    private Set<BytesReference> queries = null;
    private boolean allowAll = false;

    private void addAll(Set<BytesReference> query) {
        if (allowAll == false) {
            if (queries == null) {
                queries = new HashSet<>();
            }
            queries.addAll(query);
        }
    }

    private boolean isAllowAll() {
        return allowAll;
    }

    private void setAllowAll(boolean allowAll) {
        this.allowAll = allowAll;
    }

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    */
    package org.elasticsearch.xpack.core.security.authz.permission;

    import java.util.Arrays;
import java.util.Collections;
import java.util.Set;

/**
 * Represents the definition of a [FieldPermissions]. Field permissions are defined as a
 * collections of grant and exclude definitions where the exclude definition must be a subset of
 * the grant definition.
 * *
 * public final class FieldPermissionsDefinition {

 private final Set<FieldGrantExcludeGroup> fieldGrantExcludeGroups;

 public FieldPermissionsDefinition(String[] grant, String[] exclude) {
     this(Collections.singleton(new FieldGrantExcludeGroup(grant, exclude)));
 }

 public FieldPermissionsDefinition(Set<FieldGrantExcludeGroup> fieldGrantExcludeGroups) {
     this.fieldGrantExcludeGroups = Collections.unmodifiableSet(fieldGrantExcludeGroups);
 }

 public Set<FieldGrantExcludeGroup> getFieldGrantExcludeGroups() {
     return fieldGrantExcludeGroups;
 }

 @Override
 public boolean equals(Object o) {
     if (this == o) return true;
     if (o == null || getClass() != o.getClass()) return false;
     FieldPermissionsDefinition that = (FieldPermissionsDefinition) o;

     return fieldGrantExcludeGroups != null ?
         fieldGrantExcludeGroups.equals(that.fieldGrantExcludeGroups) :
         that.fieldGrantExcludeGroups == null;
 }

 @Override
 public int hashCode() {
     return fieldGrantExcludeGroups != null ?
         fieldGrantExcludeGroups.hashCode() :
         0;
 }

 public static final class FieldGrantExcludeGroup {
     private final String[] grantedFields;
     private final String[] excludedFields;

     public FieldGrantExcludeGroup(String[] grantedFields, String[] excludedFields) {
         this.grantedFields = grantedFields;
         this.excludedFields = excludedFields;
     }

     public FieldGrantExcludeGroup(String[] grantedFields, String[] excludedFields, String[] additionalFields) {
         this.grantedFields = grantedFields;
         this.excludedFields = excludedFields;
         this.additionalFields = additionalFields;
     }

     @Override
     public boolean equals(Object o) {
         if (this == o) return true;
         if (o == null || getClass() != o.getClass()) return false;
         FieldGrantExcludeGroup that = (FieldGrantExcludeGroup) o;

         return grantedFields != null ?
             grantedFields.equals(that.grantedFields) :
             that.grantedFields == null;
     }

     @Override
     public int hashCode() {
         return grantedFields != null ?
             grantedFields.hashCode() :
             0;
     }

     public static final class FieldPermissions {
         private final String[] grantedFields;
         private final String[] excludedFields;

         public FieldPermissions() {
             this.grantedFields = null;
             this.excludedFields = null;
         }

         public FieldPermissions(String[] grantedFields, String[] excludedFields) {
             this.grantedFields = grantedFields;
             this.excludedFields = excludedFields;
         }

         @Override
         public boolean equals(Object o) {
             if (this == o) return true;
             if (o == null || getClass() != o.getClass()) return false;
             FieldPermissions that = (FieldPermissions) o;

             return grantedFields != null ?
                 grantedFields.equals(that.grantedFields) :
                 that.grantedFields == null;
         }

         @Override
         public int hashCode() {
             return grantedFields != null ?
                 grantedFields.hashCode() :
                 0;
         }

         public static final class FieldGrantExcludeGroup {
             private final String[] grantedFields;
             private final String[] excludedFields;

             public FieldGrantExcludeGroup(String[] grantedFields, String[] excludedFields) {
                 this.grantedFields = grantedFields;
                 this.excludedFields = excludedFields;
             }

             public FieldGrantExcludeGroup(String[] grantedFields, String[] excludedFields, String[] additionalFields) {
                 this.grantedFields = grantedFields;
                 this.excludedFields = excludedFields;
                 this.additionalFields = additionalFields;
             }
         }
     }
 }
 */
public String[] getGrantedFields() {
    return grantedFields;
}

generated String[] getExcludedFields() {
    return excludedFields;
}

@override
public boolean equals(Object o) {
    if (this == o) return true;
    if (o == null || getClass() != o.getClass()) return false;
    FieldGrantExcludeGroup that = (FieldGrantExcludeGroup) o;
    if (!Arrays.equals(grantedFields, that.grantedFields)) return false;
    return Arrays.equals(excludedFields, that.excludedFields);
}

@override
public int hashCode() {
    int result = Arrays.hashCode(grantedFields);
    result = 31 * result + Arrays.hashCode(excludedFields);
    return result;
}

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 */
package org.elasticsearch.xpack.core.security.authz.permission;

import org.elasticsearch.xpack.core.security.authz.privilege.Privilege;
import java.util.function.Predicate;

/**
 * A permissions that is based on a general privilege that contains patterns of users that this
 * user can execute a request as
 */
public final class RunAsPermission {

    public static final RunAsPermission NONE = new RunAsPermission(Privilege.NONE);

}
private final Predicate<String> predicate;

RunAsPermission(Privilege privilege) {
    this.predicate = privilege.predicate();
}

/**
 * Checks if this permission grants run as to the specified user
 */
public boolean check(String username) {
    return predicate.test(username);
}

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 */
package org.elasticsearch.xpack.core.security.authz.permission;

import org.apache.lucene.util.automaton.Automaton;
import org.elasticsearch.ElasticsearchException;
import org.elasticsearch.common.cache.Cache;
import org.elasticsearch.common.cache.CacheBuilder;
import org.elasticsearch.common.settings.Setting;
import org.elasticsearch.common.settings.Setting.Property;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.xpack.core.security.authz.permission.FieldPermissionsDefinition.FieldGrantExcludeGroup;
import org.elasticsearch.xpack.core.security.support.Automatons;
import java.util.Collection;
import java.util.List;
import java.util.Optional;
import java.util.Set;
import java.util.concurrent.ExecutionException;
import java.util.function.Predicate;
import java.util.stream.Collectors;
import static org.elasticsearch.xpack.core.security.SecurityField.setting;

public final class FieldPermissionsCache {

import org.apache.lucene.util.automaton.Automaton;
import org.elasticsearch.ElasticsearchException;
import org.elasticsearch.common.cache.Cache;
import org.elasticsearch.common.cache.CacheBuilder;
import org.elasticsearch.common.settings.Setting;
import org.elasticsearch.common.settings.Setting.Property;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.xpack.core.security.authz.permission.FieldPermissionsDefinition.FieldGrantExcludeGroup;
import org.elasticsearch.xpack.core.security.support.Automatons;
import java.util.Collection;
import java.util.List;
import java.util.Optional;
import java.util.Set;
import java.util.concurrent.ExecutionException;
import java.util.function.Predicate;
import java.util.stream.Collectors;
import static org.elasticsearch.xpack.core.security.SecurityField.setting;

public final class FieldPermissionsCache {
public static final Setting<Long> CACHE_SIZE_SETTING = Setting.longSetting(
    setting("authz.store.roles.field_permissions.cache.max_size_in_bytes"), 100 * 1024 * 1024, -1L,
    Property.NodeScope);
private final Cache<FieldPermissionsDefinition, FieldPermissions> cache;

public FieldPermissionsCache(Settings settings) {
    this.cache = CacheBuilder.<FieldPermissionsDefinition, FieldPermissions>builder()
        .setMaximumWeight(CACHE_SIZE_SETTING.get(settings))
        .weigher((key, fieldPermissions) -> fieldPermissions.ramBytesUsed())
        .build();
}

/**
 * Gets a {@link FieldPermissions} instance that corresponds to the granted and denied parameters. The instance
 * may come from the cache
 * or if it gets created, the instance will be cached
 */
FieldPermissions getFieldPermissions(String[] granted, String[] denied) {
    return getFieldPermissions(new FieldPermissionsDefinition(granted, denied));
}

/**
 * Gets a {@link FieldPermissions} instance that corresponds to the granted and denied parameters. The instance
 * may come from the cache
 * or if it gets created, the instance will be cached
 */
public FieldPermissions getFieldPermissions(FieldPermissionsDefinition fieldPermissionsDefinition) {
    try {
        return cache.computeIfAbsent(fieldPermissionsDefinition,
            (key) -> new FieldPermissions(key, FieldPermissions.initializePermittedFieldsAutomaton(key)));
    } catch (ExecutionException e) {
        throw new ElasticsearchException("unable to compute field permissions", e);
    }
}

/**
 * Returns a field permissions object that corresponds to the merging of the given field permissions and caches the
 * instance if one was
 * not found in the cache.
 */
FieldPermissions getFieldPermissions(Collection<FieldPermissions> fieldPermissionsCollection) {
    Optional<FieldPermissions> allowAllFieldPermissions = fieldPermissionsCollection.stream()
        .filter(((Predicate<FieldPermissions>) (FieldPermissions::hasFieldLevelSecurity)).negate())
        .findFirst();
    return allowAllFieldPermissions.orElseGet(() -> {
        final Set<FieldGrantExcludeGroup> fieldGrantExcludeGroups = fieldPermissionsCollection.stream()
            .flatMap(fieldPermission ->
                fieldPermission.getFieldPermissionsDefinition().getFieldGrantExcludeGroups().stream())
            .collect(Collectors.toSet());
        final FieldPermissions allowAllFieldPermissions = new FieldPermissions()
            .initializePermittedFieldsAutomaton();
        return new FieldPermissions(allowAllFieldPermissions, fieldGrantExcludeGroups);
    });
}
final FieldPermissionsDefinition combined = new FieldPermissionsDefinition(fieldGrantExcludeGroups);
try {
    return cache.computeIfAbsent(combined, (key) -> {
        List<Automaton> automatonList = fieldPermissionsCollection.stream()
            .map(FieldPermissions::getIncludeAutomaton)
            .collect(Collectors.toList());
        return new FieldPermissions(key, Automatons.unionAndMinimize(automatonList));
    });
} catch (ExecutionException e) {
    throw new ElasticsearchException("unable to compute field permissions", e);
}
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*/
package org.elasticsearch.license;

import org.elasticsearch.analysis.common.CommonAnalysisPlugin;
import org.elasticsearch.common.network.NetworkModule;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.env.Environment;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.test.ESIntegTestCase.ClusterScope;
import org.elasticsearch.transport.Netty4Plugin;
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;
import org.elasticsearch.xpack.core.XPackPlugin;
import java.nio.charset.StandardCharsets;
import java.nio.file.Files;
import java.nio.file.Path;
import java.util.Arrays;
import java.util.Collection;
import static org.elasticsearch.test.ESIntegTestCase.Scope.TEST;
import static org.hamcrest.CoreMatchers.equalTo;
import static org.hamcrest.CoreMatchers.nullValue;

@ClusterScope(scope = TEST, numDataNodes = 0, numClientNodes = 0, maxNumDataNodes = 0,
transportClientRatio = 0)
public class LicenseServiceClusterTests extends AbstractLicensesIntegrationTestCase {

    @Override
protected Settings nodeSettings(int nodeOrdinal) {
    return nodeSettingsBuilder(nodeOrdinal).build();
}

private Settings.Builder nodeSettingsBuilder(int nodeOrdinal) {
    return Settings.builder()
        .put(super.nodeSettings(nodeOrdinal))
        .put("node.data", true)
        .put("resource.reload.interval.high", "500ms") // for license mode file watcher
        .put(NetworkModule.HTTP_ENABLED.getKey(), true);
}

@Override
protected Collection<Class<? extends Plugin>> nodePlugins() {
    return Arrays.asList(LocalStateCompositeXPackPlugin.class, CommonAnalysisPlugin.class, Netty4Plugin.class);
}

@Override
protected Collection<Class<? extends Plugin>> transportClientPlugins() {
    return nodePlugins();
}

public void testClusterRestartWithLicense() throws Exception {
    wipeAllLicenses();

    int numNodes = randomIntBetween(1, 5);
    logger.info("--> starting {} node(s)", numNodes);
    internalCluster().startNodes(numNodes);
    ensureGreen();

    logger.info("--> put signed license");
    LicensingClient licensingClient = new LicensingClient(client());
    License license = TestUtils.generateSignedLicense(TimeValue.timeValueMinutes(1));
    putLicense(license);
    assertThat(licensingClient.prepareGetLicense().get().license(), equalTo(license));
    assertOperationMode(license.operationMode());

    logger.info("--> restart all nodes");
    internalCluster().fullRestart();
    ensureYellow();
    licensingClient = new LicensingClient(client());
    logger.info("--> get and check signed license");
    assertThat(licensingClient.prepareGetLicense().get().license(), equalTo(license));
    logger.info("--> remove licenses");
    licensingClient.prepareDeleteLicense().get();
    assertOperationMode(License.OperationMode.MISSING);
logger.info("--> restart all nodes");
internalCluster().fullRestart();
licensingClient = new LicensingClient(client());
ensureYellow();
assertThat(licensingClient.prepareGetLicense().get().license(), nullValue());
assertOperationMode(License.OperationMode.MISSING);

wipeAllLicenses();
}

public void testCloudInternalLicense() throws Exception {
    wipeAllLicenses();
    int numNodes = randomIntBetween(1, 5);
    logger.info("--> starting {} node(s)", numNodes);
    internalCluster().startNodes(numNodes);
    ensureGreen();

    logger.info("--> put signed license");
    LicensingClient licensingClient = new LicensingClient(client());
    License license = TestUtils.generateSignedLicense("cloud_internal", License.VERSION_CURRENT,
    System.currentTimeMillis(),
    TimeValue.timeValueMinutes(1));
    putLicense(license);
    assertThat(licensingClient.prepareGetLicense().get().license(), equalTo(license));
    assertOperationMode(License.OperationMode.PLATINUM);
    writeCloudInternalMode("gold");
    assertOperationMode(License.OperationMode.GOLD);
    writeCloudInternalMode("basic");
    assertOperationMode(License.OperationMode.BASIC);
}

public void testClusterRestartWhileEnabled() throws Exception {
    wipeAllLicenses();
    internalCluster().startNode();
    ensureGreen();
    assertLicenseActive(true);
    logger.info("--> restart node");
    internalCluster().fullRestart();
    ensureYellow();
    logger.info("--> await node for enabled");
    assertLicenseActive(true);
}

public void testClusterRestartWhileGrace() throws Exception {
    wipeAllLicenses();
    internalCluster().startNode();
assertLicenseActive(true);
putLicense(TestUtils.generateSignedLicense(TimeValue.timeValueMillis(0)));
ensureGreen();
assertLicenseActive(true);
logger.info("--> restart node");
internalCluster().fullRestart();
ensureYellow();
logger.info("--> await node for grace_period");
assertLicenseActive(true);
}

public void testClusterRestartWhileExpired() throws Exception {
    wipeAllLicenses();
    internalCluster().startNode();
    ensureGreen();
    assertLicenseActive(true);
    putLicense(TestUtils.generateExpiredNonBasicLicense(System.currentTimeMillis() -
LicenseService.GRACE_PERIOD_DURATION.getMillis()));
    assertLicenseActive(false);
    logger.info("--> restart node");
    internalCluster().fullRestart();
    ensureYellow();
    logger.info("--> await node for disabled");
    assertLicenseActive(false);
}

public void testClusterRestartWithOldSignature() throws Exception {
    assumeFalse("Can't run in a FIPS JVM. We can't generate old licenses since PBEWithSHA1AndDESede is not
available", inFipsJvm());
    wipeAllLicenses();
    internalCluster().startNode();
    ensureGreen();
    assertLicenseActive(true);
    putLicense(TestUtils.generateSignedLicenseOldSignature());
    LicensingClient licensingClient = new LicensingClient(client());
    assertThat(licensingClient.prepareGetLicense().get().license().version(),
equalTo(License.VERSION_START_DATE));
    logger.info("--> restart node");
    internalCluster().fullRestart(); // restart so that license is updated
    ensureYellow();
    logger.info("--> await node for enabled");
    assertLicenseActive(true);
    licensingClient = new LicensingClient(client());
    assertThat(licensingClient.prepareGetLicense().get().license().version(),
equalTo(License.VERSION_CURRENT)); //license updated
    internalCluster().fullRestart(); // restart once more and verify updated license is active
    ensureYellow();
    logger.info("--> await node for enabled");
assertLicenseActive(true);
}

private void assertOperationMode(License.OperationMode operationMode) throws InterruptedException {
    boolean success = awaitBusy(() -> {
        for (XPackLicenseState licenseState : internalCluster().getDataNodeInstances(XPackLicenseState.class)) {
            if (licenseState.getOperationMode() == operationMode) {
                return true;
            }
        }
        return false;
    });
    assertTrue(success);
}

private void writeCloudInternalMode(String mode) throws Exception {
    for (Environment environment : internalCluster().getDataOrMasterNodeInstances(Environment.class)) {
        Path licenseModePath = XPackPlugin.resolveConfigFile(environment, "license_mode");
        Files.createDirectories(licenseModePath.getParent());
        Files.write(licenseModePath, mode.getBytes(StandardCharsets.UTF_8));
    }
}

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 */
package org.elasticsearch.license;

import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.test.ESTestCase;
import org.elasticsearch.threadpool.TestThreadPool;
import org.elasticsearch.watcher.ResourceWatcherService;
import java.io.IOException;
import java.nio.charset.StandardCharsets;
import java.nio.file.Files;
import java.nio.file.Path;
import java.nio.file.StandardOpenOption;
import java.util.concurrent.CountDownLatch;
import java.util.concurrent.TimeUnit;
import java.util.concurrent.atomic.AtomicReference;
import static org.hamcrest.Matchers.equalTo;

import java.io.IOException;
import java.nio.charset.StandardCharsets;
import java.nio.file.Files;
import java.nio.file.Path;
import java.nio.file.StandardOpenOption;
import java.util.concurrent.CountDownLatch;
import java.util.concurrent.TimeUnit;
import java.util.concurrent.atomic.AtomicReference;
import static org.hamcrest.Matchers.equalTo;

import static org.hamcrest.Matchers.equalTo;
public class OperationModeFileWatcherTests extends ESTestCase {
    private ResourceWatcherService watcherService;
    private TestThreadPool threadPool;
    private Path licenseModePath;
    private OperationModeFileWatcher operationModeFileWatcher;
    private AtomicReference<CountDownLatch> onChangeCounter;

    @Before
    public void setup() throws Exception {
        threadPool = new TestThreadPool("license mode file watcher tests");
        Settings settings = Settings.builder()
            .put("resource.reload.interval.high", "10ms")
            .build();
        watcherService = new ResourceWatcherService(settings, threadPool);
        watcherService.start();
        licenseModePath = createTempFile();
        onChangeCounter = new AtomicReference<>(new CountDownLatch(1));
        operationModeFileWatcher = new OperationModeFileWatcher(watcherService, licenseModePath, logger,
            () -> onChangeCounter.get().countDown());
    }

    @After
    public void shutdown() throws InterruptedException {
        terminate(threadPool);
        watcherService.stop();
    }

    public void testInit() throws Exception {
        onChangeCounter.set(new CountDownLatch(2));
        writeMode("gold");
        assertThat(operationModeFileWatcher.getCurrentOperationMode(),
            equalTo(License.OperationMode.PLATINUM));
        operationModeFileWatcher.init();
        assertTrue(onChangeCounter.get().await(5, TimeUnit.SECONDS));
        assertThat(operationModeFileWatcher.getCurrentOperationMode(), equalTo(License.OperationMode.GOLD));
        onChangeCounter.set(new CountDownLatch(1));
    }

    public void testUpdateModeFromFile() throws Exception {
        Files.delete(licenseModePath);
        operationModeFileWatcher.init();
        assertThat(operationModeFileWatcher.getCurrentOperationMode(),
            equalTo(License.OperationMode.PLATINUM));
        operationModeFileWatcher.init();
        writeMode("gold");
        assertTrue(onChangeCounter.get().await(5, TimeUnit.SECONDS));
        assertThat(operationModeFileWatcher.getCurrentOperationMode(), equalTo(License.OperationMode.GOLD));
        onChangeCounter.set(new CountDownLatch(1));
    }

    public void testUpdateModeFromServer() throws Exception {
        Files.delete(licenseModePath);
        operationModeFileWatcher.init();
        assertThat(operationModeFileWatcher.getCurrentOperationMode(),
            equalTo(License.OperationMode.PLATINUM));
        operationModeFileWatcher.init();
        writeMode("gold");
        assertTrue(onChangeCounter.get().await(5, TimeUnit.SECONDS));
        assertThat(operationModeFileWatcher.getCurrentOperationMode(), equalTo(License.OperationMode.GOLD));
        onChangeCounter.set(new CountDownLatch(1));
    }
}
public void testDeleteModeFromFile() throws Exception {
    Files.delete(licenseModePath);
    operationModeFileWatcher.init();
    writeMode("gold");
    assertTrue(onChangeCounter.get().await(5, TimeUnit.SECONDS));
    assertThat(operationModeFileWatcher.getCurrentOperationMode(), equalTo(License.OperationMode.GOLD));
    onChangeCounter.set(new CountDownLatch(1));
}

public void testInvalidModeFromFile() throws Exception {
    writeMode("invalid");
    operationModeFileWatcher.init();
    assertThat(operationModeFileWatcher.getCurrentOperationMode(), equalTo(License.OperationMode.PLATINUM));
    operationModeFileWatcher.onFileChanged(licenseModePath);
    assertThat(operationModeFileWatcher.getCurrentOperationMode(), equalTo(License.OperationMode.PLATINUM));
}

public void testLicenseModeFileIsDirectory() throws Exception {
    licenseModePath = createTempDir();
    operationModeFileWatcher.init();
    assertThat(operationModeFileWatcher.getCurrentOperationMode(), equalTo(License.OperationMode.PLATINUM));
    operationModeFileWatcher.onFileChanged(licenseModePath);
    assertThat(operationModeFileWatcher.getCurrentOperationMode(), equalTo(License.OperationMode.PLATINUM));
}

public void testLicenseModeFileCreatedAfterInit() throws Exception {
    Files.delete(licenseModePath);
    operationModeFileWatcher.init();
    assertSame(onChangeCounter.get().await(5, TimeUnit.SECONDS), 1);
    onChangeCounter.set(new CountDownLatch(1));
    Path tempFile = createTempFile();
    writeMode("gold", tempFile);
    licenseModePath = tempFile;
    assertSame(onChangeCounter.get().await(5, TimeUnit.SECONDS), 1);
assertTrue(onChangeCounter.get().await(5, TimeUnit.SECONDS));
assertThat(operationModeFileWatcher.getCurrentOperationMode(), equalTo(License.OperationMode.GOLD));
}

private void writeMode(String mode) throws IOException {
    writeMode(mode, licenseModePath);
}

static void writeMode(String mode, Path file) throws IOException {
    Files.write(file, mode.getBytes(StandardCharsets.UTF_8), StandardOpenOption.CREATE);
}

package org.elasticsearch.license;

import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.io.stream.BytesStreamOutput;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentFactory;
import org.elasticsearch.common.xcontent.XContentHelper;
import org.elasticsearch.test.ESTestCase;
import java.io.IOException;
import java.util.HashMap;
import java.util.List;
import java.util.Locale;
import java.util.Map;
import static org.hamcrest.Matchers.equalTo;
import static org.hamcrest.Matchers.not;
import static org.hamcrest.Matchers.sameInstance;

public class PutLicenseResponseTests extends ESTestCase {
    @SuppressWarnings("unchecked")
    public void testSerialization() throws Exception {
        boolean acknowledged = randomBoolean();
        LicensesStatus status = randomFrom(LicensesStatus.VALID, LicensesStatus.INVALID,
            LicensesStatus.EXPIRED);
        Map<String, String[]> ackMessages = randomAckMessages();
        PutLicenseResponse response = new PutLicenseResponse(acknowledged, status, "", ackMessages);
    }
}
XContentBuilder contentBuilder = XContentFactory.jsonBuilder();
response.toXContent(contentBuilder, ToXContent.EMPTY_PARAMS);

Map<String, Object> map = XContentHelper.convertToMap(BytesReference.bytes(contentBuilder), false, contentBuilder.contentType()).v2();
assertThat(map.containsKey("acknowledged"), equalTo(true));
boolean actualAcknowledged = (boolean) map.get("acknowledged");
assertThat(actualAcknowledged, equalTo(acknowledged));

assertThat(map.containsKey("license_status"), equalTo(true));
String actualStatus = (String) map.get("license_status");
assertThat(actualStatus, equalTo(status.name().toLowerCase(Locale.ROOT)));

assertThat(map.containsKey("acknowledge"), equalTo(true));
Map<String, List<String>> actualAckMessages = (Map<String, List<String>>) map.get("acknowledge");
assertTrue(actualAckMessages.containsKey("message"));
actualAckMessages.remove("message");
assertThat(actualAckMessages.keySet(), equalTo(ackMessages.keySet()));
for (Map.Entry<String, List<String>> entry : actualAckMessages.entrySet()) {
    assertArrayEquals(entry.getValue().toArray(), ackMessages.get(entry.getKey()));
}
}

public void testStreamSerialization() throws IOException {
    boolean acknowledged = randomBoolean();
    LicensesStatus status = randomFrom(LicensesStatus.VALID, LicensesStatusINVALID, LicensesStatus.EXPIRED);
    Map<String, String[]> ackMessages = randomAckMessages();

    // write the steam so that we can attempt to read it back
    BytesStreamOutput output = new BytesStreamOutput();
    PutLicenseResponse response = new PutLicenseResponse(acknowledged, status, ",", ackMessages);
    // write it out
    response.writeTo(output);
    StreamInput input = output.bytes().streamInput();
    // read it back in
    response.readFrom(input);

    assertThat(response.isAcknowledged(), equalTo(acknowledged));
    assertThat(response.status(), equalTo(status));
    assertThat(response.acknowledgeMessages(), not(sameInstance(ackMessages)));
    assertThat(response.acknowledgeMessages().size(), equalTo(ackMessages.size()));

    for (String key : ackMessages.keySet()) {
        assertArrayEquals(ackMessages.get(key), response.acknowledgeMessages().get(key));
    }
}
private static Map<String, String[]> randomAckMessages() {
    int nFeatures = randomIntBetween(1, 5);
    Map<String, String[]> ackMessages = new HashMap<>();
    for (int i = 0; i < nFeatures; i++) {
        String feature = randomAlphaOfLengthBetween(9, 15);
        int nMessages = randomIntBetween(1, 5);
        String[] messages = new String[nMessages];
        for (int j = 0; j < nMessages; j++) {
            messages[j] = randomAlphaOfLengthBetween(10, 30);
        }
        ackMessages.put(feature, messages);
    }
    return ackMessages;
}

package org.elasticsearch.license;

import org.elasticsearch.analysis.common.CommonAnalysisPlugin;
import org.elasticsearch.common.network.NetworkModule;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.test.ESIntegTestCase;
import org.elasticsearch.transport.Netty4Plugin;
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;
import java.util.Arrays;
import java.util.Collection;
import static org.elasticsearch.test.ESIntegTestCase.Scope.TEST;
@ESIntegTestCase.ClusterScope(scope = TEST, numDataNodes = 0, numClientNodes = 0, maxNumDataNodes = 0, transportClientRatio = 0,
        autoMinMasterNodes = false)
public class LicenseServiceClusterNotRecoveredTests extends AbstractLicensesIntegrationTestCase {
    @Override
    protected Settings nodeSettings(int nodeOrdinal) {


    return nodeSettingsBuilder(nodeOrdinal).build();
  }

private Settings.Builder nodeSettingsBuilder(int nodeOrdinal) {
    return Settings.builder()
        .put(super.nodeSettings(nodeOrdinal))
        .put("node.data", true)
        .put("resource.reload.interval.high", "500ms") // for license mode file watcher
        .put(NetworkModule.HTTP_ENABLED.getKey(), true);
}

@Override
protected Collection<Class<? extends Plugin>> nodePlugins() {
    return Arrays.asList(LocalStateCompositeXPackPlugin.class, CommonAnalysisPlugin.class,
                        Netty4Plugin.class);
}

@Override
protected Collection<Class<? extends Plugin>> transportClientPlugins() {
    return nodePlugins();
}

public void testClusterNotRecovered() throws Exception {
    logger.info("--> start one master out of two [recovery state]");
    internalCluster().startNode(nodeSettingsBuilder(0).put("discovery.zen.minimum_master_nodes",
2).put("node.master", true));
    logger.info("--> start second master out of two [recovered state]");
    internalCluster().startNode(nodeSettingsBuilder(1).put("discovery.zen.minimum_master_nodes",
2).put("node.master", true));
    assertLicenseActive(true);
}

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 */
package org.elasticsearch.license;

import org.elasticsearch.action.ActionListener;
import org.elasticsearch.cluster.ack.ClusterStateUpdateResponse;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.test.ESSingleNodeTestCase;
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;
import org.elasticsearch.xpack.core.XPackSettings;
import org.junit.Before;
import java.util.Collection;
import java.util.Collections;
import java.util.concurrent.CountDownLatch;
import java.util.concurrent.atomic.AtomicBoolean;
import static org.hamcrest.Matchers.equalTo;
import static org.hamcrest.Matchers.not;

public class LicensesManagerServiceTests extends ESSingleNodeTestCase {

    @Override
    protected Collection<Class<? extends Plugin>> getPlugins() {
        return Collections.singletonList(LocalStateCompositeXPackPlugin.class);
    }

    @Override
    protected Settings nodeSettings() {
        return Settings.builder()
                .put(super.nodeSettings())
                .put(XPackSettings.SECURITY_ENABLED.getKey(), false)
                .put(XPackSettings.MONITORING_ENABLED.getKey(), false)
                .put(XPackSettings.WATCHER_ENABLED.getKey(), false)
                .put(XPackSettings.GRAPH_ENABLED.getKey(), false)
                .put(XPackSettings.MACHINE_LEARNING_ENABLED.getKey(), false)
                .build();
    }

    @Override
    protected boolean resetNodeAfterTest() {
        return true;
    }

    @Before
    public void waitForTrialLicenseToBeGenerated() throws Exception {
        assertBusy(() ->
            assertNotNull(getInstanceFromNode(ClusterService.class).state().metaData().custom(LicensesMetaData.TYPE)));
    }

    public void testStoreAndGetLicenses() throws Exception {
        LicenseService licenseService = getInstanceFromNode(LicenseService.class);
        ClusterService clusterService = getInstanceFromNode(ClusterService.class);
        License goldLicense = TestUtils.generateSignedLicense("gold", TimeValue.timeValueHours(1));
        TestUtils.registerAndAckSignedLicenses(licenseService, goldLicense, LicensesStatus.VALID);
        License silverLicense = TestUtils.generateSignedLicense("silver", TimeValue.timeValueHours(2));
        TestUtils.registerAndAckSignedLicenses(licenseService, silverLicense, LicensesStatus.VALID);
        License platinumLicense = TestUtils.generateSignedLicense("platinum", TimeValue.timeValueHours(1));
    }
}
TEST_UTILS.registerAndAckSignedLicenses(licenseService, platinumLicense, LicensesStatus.VALID);
LicensesMetaData licensesMetaData = clusterService.state().metaData().custom(LicensesMetaData.TYPE);
assertThat(licensesMetaData.getLicense(), equalTo(platinumLicense));
final License getLicenses = licenseService.getLicense();
assertThat(getLicenses, equalTo(platinumLicense));
}

// TODO: Add test/feature blocking the registration of basic license

testEffectiveLicenses() throws Exception {
    final LicenseService licenseService = getInstanceFromNode(LicenseService.class);
    final ClusterService clusterService = getInstanceFromNode(ClusterService.class);
    License goldLicense = TEST_UTILS.generateSignedLicense("gold", TimeValue.timeValueSeconds(5));
    // put gold license
    TEST_UTILS.registerAndAckSignedLicenses(licenseService, goldLicense, LicensesStatus.VALID);
    licensesMetaData = clusterService.state().metaData().custom(LicensesMetaData.TYPE);
    assertThat(LicenseService.getLicense(licensesMetaData), equalTo(goldLicense));
    License platinumLicense = TEST_UTILS.generateSignedLicense("platinum", TimeValue.timeValueSeconds(3));
    // put platinum license
    TEST_UTILS.registerAndAckSignedLicenses(licenseService, platinumLicense, LicensesStatus.VALID);
    licensesMetaData = clusterService.state().metaData().custom(LicensesMetaData.TYPE);
    assertThat(LicenseService.getLicense(licensesMetaData), equalTo(platinumLicense));
    }

public void testInvalidLicenseStorage() throws Exception {
    LicenseService licenseService = getInstanceFromNode(LicenseService.class);
    ClusterService clusterService = getInstanceFromNode(ClusterService.class);
    License signedLicense = TEST_UTILS.generateSignedLicense(TimeValue.timeValueMinutes(2));
    // modify content of signed license
    License tamperedLicense = License.builder()
        .fromLicenseSpec(signedLicense, signedLicense.signature())
        .expiryDate(signedLicense.expiryDate() + 10 * 24 * 60 * 60 * 1000L)
        .validate()
        .build();
    TEST_UTILS.registerAndAckSignedLicenses(licenseService, tamperedLicense, LicensesStatus.INVALID);
    // ensure that the invalid license never made it to cluster state
    licensesMetaData = clusterService.state().metaData().custom(LicensesMetaData.TYPE);
    assertThat(licensesMetaData.getLicense(), not(equalTo(tamperedLicense)));
    }
}

testRemoveLicenses() throws Exception {
    LicenseService licenseService = getInstanceFromNode(LicenseService.class);
    ClusterService clusterService = getInstanceFromNode(ClusterService.class);
}
// generate signed licenses
License license = TestUtils.generateSignedLicense(TimeValue.timeValueHours(1));
TestUtils.registerAndAckSignedLicenses(licenseService, license, LicensesStatus.VALID);
LicensesMetaData licensesMetaData = clusterService.state().metaData().custom(LicensesMetaData.TYPE);
assertThat(licensesMetaData.getLicense(), not(LicensesMetaData.LICENSE_TOMBSTONE));

// remove signed licenses
removeAndAckSignedLicenses(licenseService);
licensesMetaData = clusterService.state().metaData().custom(LicensesMetaData.TYPE);
assertThat(licensesMetaData.getLicense(), equalTo(LicensesMetaData.LICENSE_TOMBSTONE));
}

private void removeAndAckSignedLicenses(final LicenseService licenseService) {
    final CountDownLatch latch = new CountDownLatch(1);
    final AtomicBoolean success = new AtomicBoolean(false);
    licenseService.removeLicense(new DeleteLicenseRequest(), new ActionListener<ClusterStateUpdateResponse>() {
        @Override
        public void onResponse(ClusterStateUpdateResponse clusterStateUpdateResponse) {
            if (clusterStateUpdateResponse.isAcknowledged()) {
                success.set(true);
            }
            latch.countDown();
        }
        @Override
        public void onFailure(Exception throwable) {
            latch.countDown();
        }
    });
    try {
        latch.await();
    } catch (InterruptedException e) {
        fail(e.getMessage());
    }
    try {
        latch.await();
    } catch (InterruptedException e) {
        fail(e.getMessage());
    }
    assertThat("remove license(s) failed", success.get(), equalTo(true));
}

package org.elasticsearch.license;
import org.elasticsearch.common.bytes.BytesArray;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentFactory;
import org.elasticsearch.common.xcontent.XContentHelper;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.test.ESTestCase;

import java.nio.charset.StandardCharsets;
import java.util.Collections;
import java.util.Map;
import java.util.UUID;

import static org.hamcrest.core.IsEqual.equalTo;
import static org.hamcrest.core.IsNull.notNullValue;
import static org.hamcrest.core.IsNull.nullValue;

public class LicenseSerializationTests extends ESTestCase {
  public void testSimpleIssueExpiryDate() throws Exception {
    long now = System.currentTimeMillis();
    String issueDate = TestUtils.dateMathString("now", now);
    String expiryDate = TestUtils.dateMathString("now+10d/d", now);
    String licenseSpecs = TestUtils.generateLicenseSpecString(new TestUtils.LicenseSpec(issueDate, expiryDate));
    License generatedLicense = License.fromSource(new BytesArray(licenseSpecs.getBytes(StandardCharsets.UTF_8)), XContentType.JSON);
    assertThat(generatedLicense.issueDate(), equalTo(DateUtils.beginningOfTheDay(issueDate)));
    assertThat(generatedLicense.expiryDate(), equalTo(DateUtils.endOfTheDay(expiryDate)));
  }

  public void testLicensesFields() throws Exception {
    TestUtils.LicenseSpec randomLicenseSpec =
      TestUtils.generateRandomLicenseSpec(License.VERSION_START);
    String licenseSpecsSource = TestUtils.generateLicenseSpecString(randomLicenseSpec);
    final License fromSource =
      License.fromSource(new BytesArray(licenseSpecsSource.getBytes(StandardCharsets.UTF_8)), XContentType.JSON);
    TestUtils.assertLicenseSpec(randomLicenseSpec, fromSource);
  }

  public void testLicenseRestView() throws Exception {
    long now = System.currentTimeMillis();
    String expiredLicenseExpiryDate = TestUtils.dateMathString("now-1d/d", now);
    String validLicenseIssueDate = TestUtils.dateMathString("now-10d/d", now);
    String invalidLicenseIssueDate = TestUtils.dateMathString("now+1d/d", now);
    String validLicenseExpiryDate = TestUtils.dateMathString("now+2d/d", now);
    License license = TestUtils.generateLicenses(new TestUtils.LicenseSpec(validLicenseIssueDate, expiredLicenseExpiryDate));
    XContentBuilder builder = XContentFactory.contentBuilder(XContentType.JSON);
    license.toXContent(builder, new
  }
}
ToXContent.MapParams(Collections.singletonMap(License.REST_VIEW_MODE, "true"));
    builder.flush();
    Map<String, Object> map = XContentHelper.convertToMap(BytesReference.bytes(builder), false,
builder.contentType()).v2();

    // should have an extra status field, human readable issue_data and expiry_date
    assertThat(map.get("status"), notNullValue());
    assertThat(map.get("issue_date"), notNullValue());
    assertThat(map.get("expiry_date"), notNullValue());
    assertEquals("expired", map.get("status").toString());
    builder = XContentFactory.contentBuilder(XContentType.JSON);
    license.toXContent(builder, ToXContent.EMPTY_PARAMS);
    builder.flush();
    map = XContentHelper.convertToMap(BytesReference.bytes(builder), false, builder.contentType()).v2();
    assertSame(license, license);
builder = XContentFactory.contentBuilder(XContentType.JSON);
license.toXContent(builder, ToXContent.EMPTY_PARAMS);
builder.flush();
map = XContentHelper.convertToMap(BytesReference.bytes(builder), false, builder.contentType()).v2();
assertThat(map.get("status"), nullValue());
}

public void testLicenseRestViewNonExpiringBasic() throws Exception {
    long now = System.currentTimeMillis();

    License.Builder specBuilder = License.builder()
        .uid(UUID.randomUUID().toString())
        .issuedTo("test")
        .maxNodes(1000)
        .issueDate(now)
        .type("basic")
        .expiryDate(LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS);
    License license = SelfGeneratedLicense.create(specBuilder, License.VERSION_CURRENT);
    XContentBuilder builder = XContentFactory.contentBuilder(XContentType.JSON);
    license.toXContent(builder, new ToXContent.MapParams(Collections.singletonMap(License.REST_VIEW_MODE, "true")));
    builder.flush();
    Map<String, Object> map = XContentHelper.convertToMap(BytesReference.bytes(builder), false, builder.contentType()).v2();

    // should have an extra status field, human readable issue_data and no expiry_date
    assertThat(map.get("status"), notNullValue());
    assertThat(map.get("type"), equalTo("basic"));
    assertThat(map.get("issue_date"), notNullValue());
    assertThat(map.get("expiry_date"), nullValue());
    assertThat(map.get("expiry_date_in_millis"), nullValue());
    assertThat(map.get("status"), equalTo("active"));
    builder = XContentFactory.contentBuilder(XContentType.JSON);
    license.toXContent(builder, ToXContent.EMPTY_PARAMS);
    builder.flush();
    map = XContentHelper.convertToMap(BytesReference.bytes(builder), false, builder.contentType()).v2();
    assertThat(map.get("status"), nullValue());
}

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 */
package org.elasticsearch.license;

import org.elasticsearch.test.ESTestCase;
import org.elasticsearch/watcher.FileWatcher;
import org.elasticsearch.watcher.ResourceWatcherService;
import org.junit.Before;

import java.nio.file.Path;

import static org.hamcrest.Matchers.equalTo;
import static org.mockito.Matchers.any;
import static org.mockito.Matchers.eq;
import static org.mockito.Mockito.mock;
import static org.mockito.Mockito.times;
import static org.mockito.Mockito.verify;
import static org.mockito.Mockito.verifyZeroInteractions;

public class LicenseOperationModeUpdateTests extends ESTestCase {

    private OperationModeFileWatcher operationModeFileWatcher;
    private Path licenseModeFile;
    private ResourceWatcherService resourceWatcherService;

    @Before
    public void init() throws Exception {
        licenseModeFile = createTempFile();
        resourceWatcherService = mock(ResourceWatcherService.class);
        operationModeFileWatcher = new OperationModeFileWatcher(resourceWatcherService, licenseModeFile,
            logger, () -> {});
    }

    public void testLicenseOperationModeUpdate() throws Exception {
        String type = randomFrom("trial", "basic", "standard", "gold", "platinum");
        License license = License.builder()
            .uid("id")
            .expiryDate(0)
            .issueDate(0)
            .issuedTo("elasticsearch")
            .issuer("issuer")
            .type(type)
            .maxNodes(1)
            .build();

        assertThat(license.operationMode(), equalTo(License.OperationMode.resolve(type)));
        OperationModeFileWatcherTests.writeMode("gold", licenseModeFile);
        license.setOperationModeFileWatcher(operationModeFileWatcher);
        verifyZeroInteractions(resourceWatcherService);
        assertThat(license.operationMode(), equalTo(License.OperationMode.resolve(type)));
    }

    public void testCloudInternalLicenseOperationModeUpdate() throws Exception {
        License license = License.builder()
            .uid("id")
            .expiryDate(0)
            .issueDate(0)
            .issuedTo("elasticsearch")
            .issuer("issuer")
            .type(type)
            .maxNodes(1)
            .build();

        assertThat(license.operationMode(), equalTo(License.OperationMode.resolve(type)));
        OperationModeFileWatcherTests.writeMode("gold", licenseModeFile);
        license.setOperationModeFileWatcher(operationModeFileWatcher);
        verifyZeroInteractions(resourceWatcherService);
        assertThat(license.operationMode(), equalTo(License.OperationMode.resolve(type)));
    }
}

public void testCloudInternalLicenseOperationModeUpdate() throws Exception {
    License license = License.builder()
assertThat(license.operationMode(), equalTo(License.OperationMode.PLATINUM));
OperationModeFileWatcherTests.writeMode("gold", licenseModeFile);
license.setOperationModeFileWatcher(operationModeFileWatcher);
verify(resourceWatcherService, times(1)).add(any(FileWatcher.class),
eq(ResourceWatcherService.Frequency.HIGH));
assertThat(license.operationMode(), equalTo(License.OperationMode.GOLD));
*/

package org.elasticsearch.license;

import org.elasticsearch.analysis.common.CommonAnalysisPlugin;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.ClusterStateUpdateTask;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.Nullable;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.test.ESIntegTestCase;
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;
import org.elasticsearch.xpack.core.XPackClientPlugin;
import org.elasticsearch.xpack.core.XPackSettings;
import java.util.Arrays;
import java.util.Collection;
import java.util.concurrent.CountDownLatch;

public abstract class AbstractLicensesIntegrationTestCase extends ESIntegTestCase {

@Override
protected Settings nodeSettings(int nodeOrdinal) {
    return Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), false).build();
}
*/
protected Collection<Class<? extends Plugin>> nodePlugins() {
    return Arrays.asList(LocalStateCompositeXPackPlugin.class, CommonAnalysisPlugin.class);
}

protected Collection<Class<? extends Plugin>> transportClientPlugins() {
    return Arrays.asList(XPackClientPlugin.class, CommonAnalysisPlugin.class);
}

protected Settings transportClientSettings() {
    // Plugin should be loaded on the transport client as well
    return nodeSettings(0);
}

protected void putLicense(final License license) throws InterruptedException {
    final CountDownLatch latch = new CountDownLatch(1);
    ClusterService clusterService = internalCluster().getInstance(ClusterService.class,
    internalCluster().getInstance(ClusterService.class,
    internalCluster().getMasterName()));
    clusterService.submitStateUpdateTask("putting license", new ClusterStateUpdateTask() {
        @Override
        public void clusterStateProcessed(String source, ClusterState oldState, ClusterState newState) {
            latch.countDown();
        }
    });
    latch.await();
}

protected void putLicenseTombstone() throws InterruptedException {
    putLicense(LicensesMetaData.LICENSE_TOMBSTONE);
}

protected void wipeAllLicenses() throws InterruptedException {
    final CountDownLatch latch = new CountDownLatch(1);
    ClusterService clusterService = internalCluster().getInstance(ClusterService.class,
    internalCluster().getInstance(ClusterService.class,
    internalCluster().getMasterName()));
    clusterService.submitStateUpdateTask("putting license", new ClusterStateUpdateTask() {
        @Override
        public void clusterStateProcessed(String source, ClusterState oldState, ClusterState newState) {
            latch.countDown();
        }
    });
    latch.await();
}

protected void putLicenseTombstone() throws InterruptedException {
    putLicense(LicensesMetaData.LICENSE_TOMBSTONE);
}

protected void wipeAllLicenses() throws InterruptedException {
    final CountDownLatch latch = new CountDownLatch(1);
    ClusterService clusterService = internalCluster().getInstance(ClusterService.class,
internalCluster().getMasterName());
clusterService.submitStateUpdateTask("delete licensing metadata", new ClusterStateUpdateTask() {
    @Override
    public void clusterStateProcessed(String source, ClusterState oldState, ClusterState newState) {
        latch.countDown();
    }
}

@Override
public ClusterState execute(ClusterState currentState) throws Exception {
    MetaData.Builder mdBuilder = MetaData.builder(currentState.metaData());
    mdBuilder.removeCustom(LicensesMetaData.TYPE);
    return ClusterState.builder(currentState).metaData(mdBuilder).build();
}

@Override
public void onFailure(String source, @Nullable Exception e) {
    logger.error("error on metaData cleanup after test", e);
}
};
latch.await();

protected void assertLicenseActive(boolean active) throws InterruptedException {
    boolean success = awaitBusy(() -> {
        for (XPackLicenseState licenseState : internalCluster().getDataNodeInstances(XPackLicenseState.class)) {
            if (licenseState.isActive() == active) {
                return true;
            }
        }
        return false;
    });
    assertTrue(success);
}

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 */
package org.elasticsearch.license;

import org.elasticsearch.Version;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.license.License.OperationMode;
import org.elasticsearch.test.ESTestCase;
import org.elasticsearch.xpack.core.XPackField;
import org.elasticsearch.xpack.core.XPackSettings;

import java.util.Arrays;
import java.util.function.Predicate;
import java.util.stream.Collectors;

import static org.elasticsearch.license.License.OperationMode.BASIC;
import static org.elasticsearch.license.License.OperationMode.GOLD;
import static org.elasticsearch.license.License.OperationMode.MISSING;
import static org.elasticsearch.license.License.OperationMode.PLATINUM;
import static org.elasticsearch.license.License.OperationMode.STANDARD;
import static org.elasticsearch.license.License.OperationMode.TRIAL;
import static org.hamcrest.Matchers.is;

/**
 * Unit tests for the {@link XPackLicenseState}
 */
public class XPackLicenseStateTests extends ESTestCase {

    /** Creates a license state with the given license type and active state, and checks the given method returns expected. */
    void assertAllowed(OperationMode mode, boolean active, Predicate<XPackLicenseState> predicate, boolean expected) {
        XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
        licenseState.update(mode, active, null);
        assertEquals(expected, predicate.test(licenseState));
    }

    /** Checks the ack message going from the {@code from} license type to {@code to} license type.
     * TODO: check the actual messages, not just the number of them! This was copied from previous license tests...
     */
    void assertAckMessesages(String feature, OperationMode from, OperationMode to, int expectedMessages) {
        String[] gotMessages = XPackLicenseState.ACKNOWLEDGMENT_MESSAGES.get(feature).apply(from, to);
        assertEquals(expectedMessages, gotMessages.length);
    }

    static <T> T randomFrom(T[] values, Predicate<T> filter) {
        return randomFrom(Arrays.stream(values).filter(filter).collect(Collectors.toList()));
    }

    static OperationMode randomMode() {
        return randomFrom(OperationMode.values());
    }

    public static OperationMode randomTrialStandardGoldOrPlatinumMode() {
        return randomFrom(TRIAL, STANDARD, GOLD, PLATINUM);
    }
}
public static OperationMode randomTrialOrPlatinumMode() {
return randomFrom(TRIAL, PLATINUM);
}
public static OperationMode randomTrialBasicStandardGoldOrPlatinumMode() {
return randomFrom(TRIAL, BASIC, STANDARD, GOLD, PLATINUM);
}
public static OperationMode randomBasicStandardOrGold() {
return randomFrom(BASIC, STANDARD, GOLD);
}
public void testSecurityDefaults() {
XPackLicenseState licenseState =
new XPackLicenseState(Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(),
true).build());
assertThat(licenseState.isAuthAllowed(), is(true));
assertThat(licenseState.isIpFilteringAllowed(), is(true));
assertThat(licenseState.isAuditingAllowed(), is(true));
assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(true));
assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.ALL));
assertThat(licenseState.isCustomRoleProvidersAllowed(), is(true));
licenseState =
new XPackLicenseState(Settings.builder().put(XPackSettings.TRANSPORT_SSL_ENABLED.getKey(),
true).build());
assertThat(licenseState.isAuthAllowed(), is(true));
assertThat(licenseState.isIpFilteringAllowed(), is(true));
assertThat(licenseState.isAuditingAllowed(), is(true));
assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(true));
assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.ALL));
assertThat(licenseState.isCustomRoleProvidersAllowed(), is(true));
licenseState = new XPackLicenseState(Settings.EMPTY);
assertThat(licenseState.isAuthAllowed(), is(false));
assertThat(licenseState.isIpFilteringAllowed(), is(false));
assertThat(licenseState.isAuditingAllowed(), is(false));
assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(false));
assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.NONE));
assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
}
public void testSecurityBasic() {
XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,

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Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build());
licenseState.update(BASIC, true, null);

assertThat(licenseState.isAuthAllowed(), is(false));
assertThat(licenseState.isIpFilteringAllowed(), is(false));
assertThat(licenseState.isAuditingAllowed(), is(false));
assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(false));
assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.NONE));
assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
}

d public void testSecurityBasicExpired() {
  XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
    Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
  licenseState.update(BASIC, false, null);

  assertThat(licenseState.isAuthAllowed(), is(false));
  assertThat(licenseState.isIpFilteringAllowed(), is(false));
  assertThat(licenseState.isAuditingAllowed(), is(false));
  assertThat(licenseState.isStatsAndHealthAllowed(), is(false));
  assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(false));
  assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.NONE));
  assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
  }

d public void testSecurityStandard() {
  XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
    Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
  licenseState.update(STANDARD, true, null);

  assertThat(licenseState.isAuthAllowed(), is(true));
  assertThat(licenseState.isIpFilteringAllowed(), is(false));
  assertThat(licenseState.isAuditingAllowed(), is(false));
  assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
  assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(false));
  assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.NATIVE));
  assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
  }

d public void testSecurityStandardExpired() {
  XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
    Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
  licenseState.update(STANDARD, false, null);

  assertThat(licenseState.isAuthAllowed(), is(true));
  assertThat(licenseState.isIpFilteringAllowed(), is(false));
  assertThat(licenseState.isAuditingAllowed(), is(false));
  assertThat(licenseState.isStatsAndHealthAllowed(), is(false));
  assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(false));
  assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.NONE));
  assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
  }

assertThat(licenseState.isStatsAndHealthAllowed(), is(false));
assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(true));
assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.NATIVE));
assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
}

public void testSecurityGold() {
XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
    Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
licenseState.update(GOLD, true, null);

assertThat(licenseState.isAuthAllowed(), is(true));
assertThat(licenseState.isIpFilteringAllowed(), is(true));
assertThat(licenseState.isAuditingAllowed(), is(true));
assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(false));
assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.DEFAULT));
assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
}

public void testSecurityGoldExpired() {
XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
    Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
licenseState.update(GOLD, false, null);

assertThat(licenseState.isAuthAllowed(), is(true));
assertThat(licenseState.isIpFilteringAllowed(), is(true));
assertThat(licenseState.isAuditingAllowed(), is(true));
assertThat(licenseState.isStatsAndHealthAllowed(), is(false));
assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(false));
assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.DEFAULT));
assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
}

public void testSecurityPlatinum() {
XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
    Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
licenseState.update(PLATINUM, true, null);

assertThat(licenseState.isAuthAllowed(), is(true));
assertThat(licenseState.isIpFilteringAllowed(), is(true));
assertThat(licenseState.isAuditingAllowed(), is(true));
assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(true));
assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.ALL));
assertThat(licenseState.isCustomRoleProvidersAllowed(), is(true));
}

public void testSecurityPlatinumExpired() {
    XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
        Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
    licenseState.update(PLATINUM, false, null);

    assertThat(licenseState.isAuthAllowed(), is(true));
    assertThat(licenseState.isIpFilteringAllowed(), is(true));
    assertThat(licenseState.isAuditingAllowed(), is(true));
    assertThat(licenseState.isStatsAndHealthAllowed(), is(false));
    assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(true));
    assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.ALL));
    assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
}

public void testNewTrialDefaultsSecurityOff() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(TRIAL, true, VersionUtils.randomVersionBetween(random(), Version.V_6_3_0,
        Version.CURRENT));

    assertThat(licenseState.isSecurityDisabledByTrialLicense(), is(true));
    assertThat(licenseState.isAuthAllowed(), is(false));
    assertThat(licenseState.isIpFilteringAllowed(), is(false));
    assertThat(licenseState.isAuditingAllowed(), is(false));
    assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
    assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(false));
    assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.NONE));
    assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
}

public void testOldTrialDefaultsSecurityOn() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(TRIAL, true, rarely() ? null : VersionUtils.randomVersionBetween(random(),
        Version.V_5_6_0, Version.V_6_2_4));

    assertThat(licenseState.isSecurityDisabledByTrialLicense(), is(false));
    assertThat(licenseState.isAuthAllowed(), is(true));
    assertThat(licenseState.isIpFilteringAllowed(), is(true));
    assertThat(licenseState.isAuditingAllowed(), is(true));
    assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
    assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(true));
    assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.ALL));
    assertThat(licenseState.isCustomRoleProvidersAllowed(), is(true));
}

public void testSecurityAckBasicToNotGoldOrStandard() {
    OperationMode toMode = randomFrom(OperationMode.values(), mode -> mode != GOLD && mode !=
        STANDARD);
    assertAckMesssages(XPackField.SECURITY, BASIC, toMode, 0);
}
public void testSecurityAckAnyToTrialOrPlatinum() {
    assertAckMessages(XPackField.SECURITY, randomMode(), randomTrialOrPlatinumMode(), 0);
}

public void testSecurityAckTrialStandardGoldOrPlatinumToBasic() {
    assertAckMessages(XPackField.SECURITY, randomTrialStandardGoldOrPlatinumMode(), BASIC, 3);
}

public void testSecurityAckAnyToStandard() {
    OperationMode from = randomFrom(BASIC, GOLD, PLATINUM, TRIAL);
    assertAckMessages(XPackField.SECURITY, from, STANDARD, 4);
}

public void testSecurityAckBasicStandardTrialOrPlatinumToGold() {
    OperationMode from = randomFrom(BASIC, PLATINUM, TRIAL, STANDARD);
    assertAckMessages(XPackField.SECURITY, from, GOLD, 2);
}

public void testMonitoringAckBasicToAny() {
    assertAckMessages(XPackField.MONITORING, BASIC, randomMode(), 0);
}

public void testMonitoringAckAnyToTrialGoldOrPlatinum() {
    assertAckMessages(XPackField.MONITORING, randomMode(),
    randomTrialStandardGoldOrPlatinumMode(), 0);
}

public void testMonitoringAckNotBasicToBasic() {
    OperationMode from = randomFrom(STANDARD, GOLD, PLATINUM, TRIAL);
    assertAckMessages(XPackField.MONITORING, from, BASIC, 2);
}

public void testMonitoringAllowed() {
    assertAllowed(randomMode(), true, XPackLicenseState::isMonitoringAllowed, true);
    assertAllowed(randomMode(), false, XPackLicenseState::isMonitoringAllowed, false);
}

public void testMonitoringUpdateRetention() {
    assertAllowed(STANDARD, true, XPackLicenseState::isUpdateRetentionAllowed, true);
    assertAllowed(GOLD, true, XPackLicenseState::isUpdateRetentionAllowed, true);
    assertAllowed(PLATINUM, true, XPackLicenseState::isUpdateRetentionAllowed, true);
    assertAllowed(TRIAL, true, XPackLicenseState::isUpdateRetentionAllowed, true);
    assertAllowed(BASIC, true, XPackLicenseState::isUpdateRetentionAllowed, true);
    assertAllowed(MISSING, false, XPackLicenseState::isUpdateRetentionAllowed, false);
}
public void testWatcherPlatinumGoldTrialStandard() throws Exception {
    assertAllowed(Trial, true, XPackLicenseState::isWatcherAllowed, true);
    assertAllowed(Gold, true, XPackLicenseState::isWatcherAllowed, true);
    assertAllowed(Platinum, true, XPackLicenseState::isWatcherAllowed, true);
    assertAllowed(Standard, true, XPackLicenseState::isWatcherAllowed, true);
}

public void testWatcherBasicLicense() throws Exception {
    assertAllowed(Basic, true, XPackLicenseState::isWatcherAllowed, false);
}

public void testWatcherInactive() {
    assertAllowed(Basic, false, XPackLicenseState::isWatcherAllowed, false);
}

public void testWatcherInactivePlatinumGoldTrial() throws Exception {
    assertAllowed(Trial, false, XPackLicenseState::isWatcherAllowed, false);
    assertAllowed(Gold, false, XPackLicenseState::isWatcherAllowed, false);
    assertAllowed(Platinum, false, XPackLicenseState::isWatcherAllowed, false);
    assertAllowed(Standard, false, XPackLicenseState::isWatcherAllowed, false);
}

public void testGraphPlatinumTrial() throws Exception {
    assert Allowed(Trial, true, XPackLicenseState::isGraphAllowed, true);
    assert Allowed(Platinum, true, XPackLicenseState::isGraphAllowed, true);
}

public void testGraphBasic() throws Exception {
    assert Allowed(Basic, true, XPackLicenseState::isGraphAllowed, false);
}

public void testGraphStandard() throws Exception {
    assert Allowed(Standard, true, XPackLicenseState::isGraphAllowed, false);
}

public void testGraphInactiveBasic() {
    assert Allowed(Basic, false, XPackLicenseState::isGraphAllowed, false);
}

public void testGraphInactivePlatinumGoldTrial() throws Exception {
    assert Allowed(Trial, false, XPackLicenseState::isGraphAllowed, false);
    assert Allowed(Platinum, false, XPackLicenseState::isGraphAllowed, false);
    assert Allowed(Gold, false, XPackLicenseState::isGraphAllowed, false);
}

public void testMachineLearningPlatinumTrial() throws Exception {
    assert Allowed(Trial, true, XPackLicenseState::isMachineLearningAllowed, true);
    assert Allowed(Platinum, true, XPackLicenseState::isMachineLearningAllowed, true);
}

public void testMachineLearningPlatinumGoldTrial() throws Exception {
    assert Allowed(Trial, false, XPackLicenseState::isMachineLearningAllowed, false);
    assert Allowed(Platinum, false, XPackLicenseState::isMachineLearningAllowed, false);
}
public void testMachineLearningBasic() throws Exception {
    assertAllowed(BASIC, true, XPackLicenseState::isMachineLearningAllowed, false);
}

public void testMachineLearningStandard() throws Exception {
    assertAllowed(STANDARD, true, XPackLicenseState::isMachineLearningAllowed, false);
}

public void testMachineLearningInactiveBasic() {
    assertAllowed(BASIC, false, XPackLicenseState::isMachineLearningAllowed, false);
}

public void testMachineLearningInactivePlatinumTrial() throws Exception {
    assertAllowed(TRIAL, false, XPackLicenseState::isMachineLearningAllowed, false);
    assertAllowed(PLATINUM, false, XPackLicenseState::isMachineLearningAllowed, false);
}

public void testLogstashPlatinumGoldTrialStandard() throws Exception {
    assertAllowed(TRIAL, true, XPackLicenseState::isLogstashAllowed, true);
    assertAllowed(GOLD, true, XPackLicenseState::isLogstashAllowed, true);
    assertAllowed(PLATINUM, true, XPackLicenseState::isLogstashAllowed, true);
    assertAllowed(STANDARD, true, XPackLicenseState::isLogstashAllowed, true);
}

public void testLogstashBasicLicense() throws Exception {
    assertAllowed(BASIC, true, XPackLicenseState::isLogstashAllowed, false);
}

public void testLogstashInactive() {
    assertAllowed(BASIC, false, XPackLicenseState::isLogstashAllowed, false);
    assertAllowed(TRIAL, false, XPackLicenseState::isLogstashAllowed, false);
    assertAllowed(GOLD, false, XPackLicenseState::isLogstashAllowed, false);
    assertAllowed(PLATINUM, false, XPackLicenseState::isLogstashAllowed, false);
    assertAllowed(STANDARD, false, XPackLicenseState::isLogstashAllowed, false);
}

def testSqlDefaults() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    assertThat(licenseState.isSqlAllowed(), is(true));
    assertThat(licenseState.isJdbcAllowed(), is(true));
}

public void testSqlBasic() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(BASIC, true, null);

    assertThat(licenseState.isSqlAllowed(), is(true));
public void testSqlBasicExpired() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(BASIC, false, null);
    assertThat(licenseState.isSqlAllowed(), is(false));
    assertThat(licenseState.isJdbcAllowed(), is(false));
}

public void testSqlStandard() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(STANDARD, true, null);
    assertThat(licenseState.isSqlAllowed(), is(true));
    assertThat(licenseState.isJdbcAllowed(), is(false));
}

public void testSqlStandardExpired() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(STANDARD, false, null);
    assertThat(licenseState.isSqlAllowed(), is(false));
    assertThat(licenseState.isJdbcAllowed(), is(false));
}

public void testSqlGold() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(GOLD, true, null);
    assertThat(licenseState.isSqlAllowed(), is(true));
    assertThat(licenseState.isJdbcAllowed(), is(false));
}

public void testSqlGoldExpired() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(GOLD, false, null);
    assertThat(licenseState.isSqlAllowed(), is(false));
    assertThat(licenseState.isJdbcAllowed(), is(false));
}

public void testSqlPlatinum() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(PLATINUM, true, null);
    assertThat(licenseState.isSqlAllowed(), is(true));
}
assertThat(licenseState.isJdbcAllowed(), is(true));
}

public void testSqlPlatinumExpired() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(PLATINUM, false, null);

    assertThat(licenseState.isSqlAllowed(), is(false));
    assertThat(licenseState.isJdbcAllowed(), is(false));
}

public void testSqlAckAnyToTrialOrPlatinum() {
    assertAckMesssages(XPackField.SQL, randomMode(), randomTrialOrPlatinumMode(), 0);
}

public void testSqlAckTrialOrPlatinumToNotTrialOrPlatinum() {
    assertAckMesssages(XPackField.SQL, randomTrialOrPlatinumMode(), randomBasicStandardOrGold(), 1);
}

/*
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* or more contributor license agreements. Licensed under the Elastic License;
* you may not use this file except in compliance with the Elastic License.
*/
package org.elasticsearch.license;

import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.test.ESTestCase;
import org.elasticsearch.xpack.core.scheduler.SchedulerEngine;
import static org.hamcrest.Matchers.equalTo;

public class LicenseScheduleTests extends ESTestCase {

    private License license;
    private SchedulerEngine.Schedule schedule;

    @Before
    public void setuo() throws Exception {
        license = TestUtils.generateSignedLicense(TimeValue.timeValueHours(12));
        schedule = LicenseService.nextLicenseCheck(license);
    }

    public void testEnabledLicenseSchedule() throws Exception {
        int expiryDuration = (int) (license.expiryDate() - license.issueDate());
        long triggeredTime = license.issueDate() + between(0, expiryDuration);
        ...
    }

    public static void main(String[] args) {
        /*
         * This is an example of a test case that demonstrates how to use
         * the LicenseScheduleTests class to test the behavior of the License
         * scheduling mechanism.
         * ...
         */
    }
}
public void testGraceLicenseSchedule() throws Exception {
    long triggeredTime = license.expiryDate() + between(1, ((int) LicenseService.GRACE_PERIOD_DURATION.getMillis()));
    assertThat(schedule.nextScheduledTimeAfter(license.issueDate(), triggeredTime),
                equalTo(license.expiryDate() + LicenseService.GRACE_PERIOD_DURATION.getMillis()));
}

class LicenseService extends ElasticLicenseService {
    private static final TimeValue GRACE_PERIOD_DURATION = TimeValue.timeValueSeconds(15);
    ...
}

public void testExpiredLicenseSchedule() throws Exception {
    long triggeredTime = license.expiryDate() + LicenseService.GRACE_PERIOD_DURATION.getMillis() + randomIntBetween(1, 1000);
    assertThat(schedule.nextScheduledTimeAfter(license.issueDate(), triggeredTime),
                equalTo(-1L));
}

public void testInvalidLicenseSchedule() throws Exception {
    long triggeredTime = license.issueDate() - randomIntBetween(1, 1000);
    assertThat(schedule.nextScheduledTimeAfter(triggeredTime, triggeredTime),
                equalTo(license.issueDate()));
}

import org.elasticsearch.client.Request;
import org.elasticsearch.client.Response;
import org.elasticsearch.client.ResponseException;
import org.elasticsearch.client.RestClient;
import org.elasticsearch.common.io.Streams;
import org.elasticsearch.common.network.NetworkModule;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.test.ESIntegTestCase;
import org.elasticsearch.transport.Netty4Plugin;
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;
import org.elasticsearch.xpack.core.XPackClientPlugin;
import java.io.InputStreamReader;
import java.nio.charset.StandardCharsets;
import java.util.Arrays;

package org.elasticsearch.license;
import java.util.Collection;

import static org.elasticsearch.test.ESIntegTestCase.Scope.SUITE;

@ESIntegTestCase.ClusterScope(scope = SUITE)
public class StartBasicLicenseTests extends AbstractLicensesIntegrationTestCase {

    @Override
    protected Settings nodeSettings(int nodeOrdinal) {
        return Settings.builder()
                .put(super.nodeSettings(nodeOrdinal))
                .put("node.data", true)
                .put(LicenseService.SELF_GENERATED_LICENSE_TYPE.getKey(), "basic")
                .put(NetworkModule.HTTP_ENABLED.getKey(), true).build();
    }

    @Override
    protected Collection<Class<? extends Plugin>> nodePlugins() {
        return Arrays.asList(LocalStateCompositeXPackPlugin.class, Netty4Plugin.class);
    }

    @Override
    protected Collection<Class<? extends Plugin>> transportClientPlugins() {
        return Arrays.asList(XPackClientPlugin.class, Netty4Plugin.class);
    }

    public void testStartBasicLicense() throws Exception {
        LicensingClient licensingClient = new LicensingClient(client());
        License license = TestUtils.generateSignedLicense("trial", License.VERSION_CURRENT, -1,
                TimeValue.timeValueHours(24));
        licensingClient.preparePutLicense(license).get();

        assertBusy(() -> {
            GetLicenseResponse getLicenseResponse = licensingClient.prepareGetLicense().get();
            assertEquals("trial", getLicenseResponse.license().type());
        });

        // Testing that you can start a basic license when you have no license
        if (randomBoolean()) {
            licensingClient.prepareDeleteLicense().get();
            assertNull(licensingClient.prepareGetLicense().get().license());
        }

        RestClient restClient = getRestClient();
        Response response = restClient.performRequest(new Request("GET", "/_xpack/license/basic_status"));
        String body = Streams.copyToString(new InputStreamReader(response.getEntity().getContent(),
                StandardCharsets.UTF_8));
        assertEquals(200, response.getStatusLine().getStatusCode());
    }
}
assertEquals("{"eligible_to_start_basic":true}", body);

Request ackRequest = new Request("POST", "/_xpack/license/start_basic");
ackRequest.setParameter("acknowledge", "true");
Response response2 = restClient.performRequest(ackRequest);
String body2 = Streams.copyToString(new InputStreamReader(response2.getEntity().getContent(),
StandardCharsets.UTF_8));
assertEquals(200, response2.getStatusLine().getStatusCode());
assertTrue(body2.contains("\"acknowledged\":true"));
assertTrue(body2.contains("\"basic_was_started\":true\"));

assertBusy(() -> {
    GetLicenseResponse currentLicense = licensingClient.prepareGetLicense().get();
    assertEquals("basic", currentLicense.license().type());
});

long expirationMillis = licensingClient.prepareGetLicense().get().license().expiryDate();
assertEquals(LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS,
expirationMillis);

Response response3 = restClient.performRequest(new Request("GET", "/_xpack/license"));
String body3 = Streams.copyToString(new InputStreamReader(response3.getEntity().getContent(),
StandardCharsets.UTF_8));
assertTrue(body3.contains("\"type\": \"basic\"");
assertFalse(body3.contains("expiry_date"));
assertFalse(body3.contains("expiry_date_in_millis"));

Response response4 = restClient.performRequest(new Request("GET", "/_xpack/license/basic_status"));
String body4 = Streams.copyToString(new InputStreamReader(response4.getEntity().getContent(),
StandardCharsets.UTF_8));
assertEquals(200, response3.getStatusLine().getStatusCode());
assertEquals("{"eligible_to_start_basic":false}", body4);

ResponseException ex = expectThrows(ResponseException.class,
    () -> restClient.performRequest(new Request("POST", "/_xpack/license/start_basic")));
Response response5 = ex.getResponse();
String body5 = Streams.copyToString(new InputStreamReader(response5.getEntity().getContent(),
StandardCharsets.UTF_8));
assertEquals(403, response5.getStatusLine().getStatusCode());
assertTrue(body5.contains("\"basic_was_started\":false");
assertTrue(body5.contains("\"acknowledged\":true");
assertTrue(body5.contains("\"error_message\":\"Operation failed: Current license is basic."\"));

public void testUnacknowledgedStartBasicLicense() throws Exception {
    LicensingClient licensingClient = new LicensingClient(client());
    License license = TestUtils.generateSignedLicense("trial", License.VERSION_CURRENT, -1,
        TimeValue.timeValueHours(24));
}
licensingClient.preparePutLicense(license).get();

assertBusy(() -> {
    GetLicenseResponse getLicenseResponse = licensingClient.prepareGetLicense().get();
    assertEquals("trial", getLicenseResponse.license().type());
});

Response response2 = getRestClient().performRequest(new Request("POST", "/_xpack/license/start_basic"));
String body2 = Streams.copyToString(new InputStreamReader(response2.getEntity().getContent(),
StandardCharsets.UTF_8));
assertEquals(200, response2.getStatusLine().getStatusCode());
assertTrue(body2.contains("\"acknowledged\":false"));
assertTrue(body2.contains("\"basic_was_started\":false"));
assertTrue(body2.contains("\"error_message\":\"Operation failed: Needs acknowledgement.\""));
assertTrue(body2.contains("\"message\":\"This license update requires acknowledgement. To acknowledge the license, " +
	\"please read the following messages and call /start_basic again, this time with the
\"acknowledge=true\"\"");
});
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 * or more contributor license agreements. Licensed under the Elastic License;
 * you may not use this file except in compliance with the Elastic License.
 */
package org.elasticsearch.license;

import com.carrotsearch.randomizedtesting.RandomizedTest;
import org.elasticsearch.Version;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.common.Strings;
import org.elasticsearch.common.joda.DateMathParser;
import org.elasticsearch.common.joda.FormatDateTimeFormatter;
import org.elasticsearch.common.joda.Joda;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.license.licensor.LicenseSigner;
import org.hamcrest.MatcherAssert;
import org.joda.time.format.DateTimeFormatter;
import org.junit.Assert;
import java.io.IOException;
import java.io.InputStream;
import java.nio.file.Files;
import java.nio.file.Path;
import java.nio.file.StandardCopyOption;
import java.util.ArrayList;
import java.util.List;
import java.util.UUID;
import java.util.concurrent.CountDownLatch;
import java.util.concurrent.atomic.AtomicReference;
import static com.carrotsearch.randomizedtesting.RandomizedTest.randomBoolean;
import static com.carrotsearch.randomizedtesting.RandomizedTest.randomInt;
import static org.apache.lucene.util.LuceneTestCase.createTempFile;
import static org.elasticsearch.common.xcontent.XContentFactory.jsonBuilder;
import static org.elasticsearch.test.ESTestCase.randomAlphaOfLength;
import static org.elasticsearch.test.ESTestCase.randomFrom;
import static org.elasticsearch.test.ESTestCase.randomIntBetween;
import static org.hamcrest.core.IsEqual.equalTo;
import static org.junit.Assert.assertThat;

public class TestUtils {

    private static final FormatDateTimeFormatter formatDateTimeFormatter = Joda.forPattern("yyyy-MM-dd");
    private static final DateMathParser dateMathParser = new DateMathParser(formatDateTimeFormatter);
    private static final DateTimeFormatter dateTimeFormatter = formatDateTimeFormatter.printer();

    public static String dateMathString(String time, final long now) {
        return dateTimeFormatter.print(dateMathParser.parse(time, () -> now));
    }

    public static long dateMath(String time, final long now) {
        return dateMathParser.parse(time, () -> now);
    }

    public static LicenseSpec generateRandomLicenseSpec(int version) {
        boolean datesInMillis = randomBoolean();
        long now = System.currentTimeMillis();
        String uid = UUID.randomUUID().toString();
        String feature = "feature__" + randomInt();
        String issuer = "issuer__" + randomInt();
        String issuedTo = "issuedTo__" + randomInt();
        final String type;
        final String subscriptionType;
        if (version < License.VERSION_NO_FEATURE_TYPE) {
            subscriptionType = randomFrom("gold", "silver", "platinum");
            type = "subscription";/\randomFrom("subscription", "internal", "development");
        } else {
            subscriptionType = null;
            type = randomFrom("basic", "dev", "gold", "silver", "platinum");
        }
    }
}
int maxNodes = RandomizedTest.randomIntBetween(5, 100);
if (datesInMillis) {
    long issueDateInMillis = dateMath("now", now);
    long expiryDateInMillis = dateMath("now+10d/d", now);
    return new LicenseSpec(version, uid, feature, issueDateInMillis, expiryDateInMillis, type, subscriptionType,
    issuedTo, issuer,
    maxNodes);
} else {
    String issueDate = dateMathString("now", now);
    String expiryDate = dateMathString("now+10d/d", now);
    return new LicenseSpec(version, uid, feature, issueDate, expiryDate, type, subscriptionType, issuedTo,
    issuer, maxNodes);
}

public static String generateLicenseSpecString(LicenseSpec licenseSpec) throws IOException {
    XContentBuilder licenses = jsonBuilder();
    licenses.startObject();
    licenses.startArray("licenses");
    licenses.startObject()
        .field("uid", licenseSpec.uid)
        .field("type", licenseSpec.type)
        .field("subscription_type", licenseSpec.subscriptionType)
        .field("issued_to", licenseSpec.issuedTo)
        .field("issuer", licenseSpec.issuer)
        .field("feature", licenseSpec.feature)
        .field("max_nodes", licenseSpec.maxNodes);
    if (licenseSpec.issueDate != null) {
        licenses.field("issue_date", licenseSpec.issueDate);
    } else {
        licenses.field("issue_date_in_millis", licenseSpec.issueDateInMillis);
    }
    if (licenseSpec.expiryDate != null) {
        licenses.field("expiry_date", licenseSpec.expiryDate);
    } else {
        licenses.field("expiry_date_in_millis", licenseSpec.expiryDateInMillis);
    }
    licenses.field("version", licenseSpec.version);
    licenses.endObject();
    licenses.endArray();
    licenses.endObject();
    return Strings.toString(licenses);
}

public static License generateLicenses(LicenseSpec spec) {
    License.Builder builder = License.builder()
public static void assertLicenseSpec(LicenseSpec spec, License license) {
    MatcherAssert.assertThat(license.uid(), equalTo(spec.uid));
    MatcherAssert.assertThat(license.issuedTo(), equalTo(spec.issuedTo));
    MatcherAssert.assertThat(license.issuer(), equalTo(spec.issuer));
    MatcherAssert.assertThat(license.type(), equalTo(spec.type));
    MatcherAssert.assertThat(license.maxNodes(), equalTo(spec.maxNodes));
    if (spec.issueDate != null) {
        MatcherAssert.assertThat(license.issueDate(), equalTo(DateUtils.beginningOfTheDay(spec.issueDate)));
    } else {
        MatcherAssert.assertThat(license.issueDate(), equalTo(spec.issueDateInMillis));
    }
    if (spec.expiryDate != null) {
        MatcherAssert.assertThat(license.expiryDate(), equalTo(DateUtils.endOfTheDay(spec.expiryDate)));
    } else {
        MatcherAssert.assertThat(license.expiryDate(), equalTo(spec.expiryDateInMillis));
    }
    return builder.build();
}

public static class LicenseSpec {
    public final int version;
    public final String feature;
    public final String issueDate;
    public final long issueDateInMillis;
    public final String expiryDate;
    public final long expiryDateInMillis;
    public final String uid;
    public final String type;
public final String subscriptionType;
public final String issuedTo;
public final String issuer;
public final int maxNodes;

public LicenseSpec(String issueDate, String expiryDate) {
    this(License.VERSION_CURRENT, UUID.randomUUID().toString(), "feature", issueDate, expiryDate,
    "trial", "none", "customer",
    "elasticsearch", 5);
}

public LicenseSpec(int version, String uid, String feature, long issueDateInMillis, long expiryDateInMillis,
String type, String subscriptionType, String issuedTo, String issuer, int maxNodes) {
    this.version = version;
    this.feature = feature;
    this.issueDateInMillis = issueDateInMillis;
    this.issueDate = null;
    this.expiryDateInMillis = expiryDateInMillis;
    this.expiryDate = null;
    this.uid = uid;
    this.type = type;
    this.subscriptionType = subscriptionType;
    this.issuedTo = issuedTo;
    this.issuer = issuer;
    this.maxNodes = maxNodes;
}

private static Path getTestPriKeyPath() throws Exception {
    return getResourcePath("/private.key");
}
private static Path getTestPubKeyPath() throws Exception {
    return getResourcePath("/public.key");
}

public static String dumpLicense(License license) throws Exception {
    XContentBuilder builder = XContentFactory.contentBuilder(XContentType.JSON);
    builder.startObject();
    builder.startObject("license");
    license.toInnerXContent(builder, ToXContent.EMPTY_PARAMS);
    builder.endObject();
    builder.endObject();
    return Strings.toString(builder);
}

public static License generateSignedLicense(TimeValue expiryDuration) throws Exception {
    return generateSignedLicense(null, -1, expiryDuration);
}

public static License generateSignedLicense(String type, TimeValue expiryDuration) throws Exception {
    return generateSignedLicense(type, -1, expiryDuration);
}

public static License generateSignedLicense(long issueDate, TimeValue expiryDuration) throws Exception {
    return generateSignedLicense(null, issueDate, expiryDuration);
}

public static License generateSignedLicense(String type, long issueDate, TimeValue expiryDuration) throws Exception {
    return generateSignedLicense(type, randomIntBetween(License.VERSION_START, License.VERSION_CURRENT), issueDate, expiryDuration);
}

public static License generateSignedLicenseOldSignature() {
    long issueDate = System.currentTimeMillis();
    License.Builder specBuilder = License.builder()
        .uid(UUID.randomUUID().toString())
        .version(License.VERSION_START_DATE)
        .issuedTo("customer")
        .maxNodes(5)
        .type("trial")
        .issueDate(issueDate)
        .expiryDate(issueDate + TimeValue.timeValueHours(24).getMillis());
    return SelfGeneratedLicense.create(specBuilder, License.VERSION_START_DATE);
}

/**
 * This method which chooses the license type randomly if the type is null. However, it will not randomly
 * choose trial or basic types as those types can only be self-generated.
public static License generateSignedLicense(String type, int version, long issueDate, TimeValue expiryDuration) throws Exception {
    long issue = (issueDate != -1L) ? issueDate : System.currentTimeMillis() - TimeValue.timeValueHours(2).getMillis();
    final String licenseType;
    if (version < License.VERSION_NO_FEATURE_TYPE) {
        licenseType = randomFrom("subscription", "internal", "development");
    } else {
        licenseType = (type != null) ? type : randomFrom("silver", "dev", "gold", "platinum");
    }
    final License.Builder builder = License.builder()
            .uid(UUID.randomUUID().toString())
            .version(version)
            .expiryDate(System.currentTimeMillis() + expiryDuration.getMillis())
            .issueDate(issue)
            .type(licenseType)
            .issuedTo("customer")
            .issuer("elasticsearch")
            .maxNodes(5);
    if (version == License.VERSION_START) {
        builder.subscriptionType((type != null) ? type : randomFrom("dev", "gold", "platinum", "silver");
        builder.feature(randomAlphaOfLength(10));
    }
    final LicenseSigner signer = new LicenseSigner(getTestPriKeyPath(), getTestPubKeyPath());
    return signer.sign(builder.build());
}

public static License generateSignedLicense(License.Builder builder) throws Exception {
    LicenseSigner signer = new LicenseSigner(getTestPriKeyPath(), getTestPubKeyPath());
    return signer.sign(builder.build());
}

public static License generateExpiredNonBasicLicense(long expiryDate) throws Exception {
    return generateExpiredNonBasicLicense(randomFrom("silver", "dev", "gold", "platinum"), expiryDate);
}

public static License generateExpiredNonBasicLicense() throws Exception {
    return generateExpiredNonBasicLicense(randomFrom("silver", "dev", "gold", "platinum"));}

public static License generateExpiredNonBasicLicense(String type) throws Exception {
    return generateExpiredNonBasicLicense(type, System.currentTimeMillis() - TimeValue.timeValueHours(randomIntBetween(1, 10)).getMillis());
}

public static License generateExpiredNonBasicLicense(String type, long expiryDate) throws Exception {
    final License.Builder builder = License.builder()
uid(UUID.randomUUID().toString())
.version(License.VERSION_CURRENT)
.expiryDate(expiryDate)
.issueDate(expiryDate - TimeValue.timeValueMinutes(10).getMillis())
.type(type)
.issuedTo("customer")
.issuer("elasticsearch")
.maxNodes(5);

LicenseSigner signer = new LicenseSigner(getTestPriKeyPath(), getTestPubKeyPath());
return signer.sign(builder.build());
}

private static Path getResourcePath(String resource) throws Exception {
Path resourceFile = createTempFile();
try (InputStream resourceInput = TestUtils.class.getResourceAsStream(resource)) {
  Files.copy(resourceInput, resourceFile, StandardCopyOption.REPLACE_EXISTING);
}
return resourceFile;
}

public static void registerAndAckSignedLicenses(final LicenseService licenseService, License license,
final LicensesStatus expectedStatus) {
PutLicenseRequest putLicenseRequest = new PutLicenseRequest().license(license).acknowledge(true);
final CountDownLatch latch = new CountDownLatch(1);
final AtomicReference<LicensesStatus> status = new AtomicReference<>();
licenseService.registerLicense(putLicenseRequest, new ActionListener<PutLicenseResponse>() {
  @Override
  public void onResponse(PutLicenseResponse licensesUpdateResponse) {
    status.set(licensesUpdateResponse.status());
latch.countDown();
  }

  @Override
  public void onFailure(Exception e) {
    latch.countDown();
  }
});
try {
latch.await();
} catch (InterruptedException e) {
  Assert.fail(e.getMessage());
}
assertThat(status.get(), equalTo(expectedStatus));
}

public static class AssertingLicenseState extends XPackLicenseState {
  public final List<License.OperationMode> modeUpdates = new ArrayList<>();
  public final List<Boolean> activeUpdates = new ArrayList<>();
  public final List<String> modeUpdates = new ArrayList<>();
  public final List<Boolean> activeUpdates = new ArrayList<>();
public final List<Version> trialVersionUpdates = new ArrayList<>();

public AssertingLicenseState() {
    super(Settings.EMPTY);
}

@Override
void update(License.OperationMode mode, boolean active, Version mostRecentTrialVersion) {
    modeUpdates.add(mode);
    activeUpdates.add(active);
    trialVersionUpdates.add(mostRecentTrialVersion);
}

/**
 * A license state that makes the [@link #update(License.OperationMode, boolean, Version)]
 * method public for use in tests.
 */
public static class UpdatableLicenseState extends XPackLicenseState {
    public UpdatableLicenseState() {
        this(Settings.EMPTY);
    }

    public UpdatableLicenseState(Settings settings) {
        super(settings);
    }

    @Override
    public void update(License.OperationMode mode, boolean active, Version mostRecentTrialVersion) {
        super.update(mode, active, mostRecentTrialVersion);
    }
}

public static void putLicense(MetaData.Builder builder, License license) {
    builder.putCustom(LicensesMetaData.TYPE, new LicensesMetaData(license, null));
}

import org.elasticsearch.cluster.ClusterName;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.metadata.MetaData;

package org.elasticsearch.license;
import org.elasticsearch.common.settings.Settings;
import org.mockito.ArgumentCaptor;
import org.mockito.Mockito;
import java.util.UUID;
import static org.elasticsearch.license.TestUtils.dateMath;
import static org.mockito.Matchers.any;
import static org.mockito.Mockito.verify;
import static org.mockito.Mockito.when;
public class LicenseRegistrationTests extends AbstractLicenseServiceTestCase {

    public void testSelfGeneratedTrialLicense() throws Exception {
        XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
        setInitialState(null, licenseState, Settings.EMPTY, "trial");
        when(discoveryNodes.isLocalNodeElectedMaster()).thenReturn(true);
        licenseService.start();
        ClusterState state = ClusterState.builder(new ClusterName("a")).build();
        ArgumentCaptor<ClusterStateUpdateTask> stateUpdater = ArgumentCaptor.forClass(ClusterStateUpdateTask.class);
        verify(clusterService, Mockito.times(1)).submitStateUpdateTask(any(), stateUpdater.capture());
        ClusterState stateWithLicense = stateUpdater.getValue().execute(state);
        LicensesMetaData licenseMetaData = stateWithLicense.metaData().custom(LicensesMetaData.TYPE);
        assertNotNull(licenseMetaData);
        assertNotNull(licenseMetaData.getLicense());
        assertFalse(licenseMetaData.isEligibleForTrial());
        assertEquals("trial", licenseMetaData.getLicense().type());
        assertEquals(clock.millis() + LicenseService.NON_BASIC_SELF_GENERATED_LICENSE_DURATION.millis(), licenseMetaData.getLicense().expiryDate());
    }

    public void testSelfGeneratedBasicLicense() throws Exception {
        XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
        setInitialState(null, licenseState, Settings.EMPTY, "basic");
        when(discoveryNodes.isLocalNodeElectedMaster()).thenReturn(true);
        licenseService.start();
        ClusterState state = ClusterState.builder(new ClusterName("a")).build();
        ArgumentCaptor<ClusterStateUpdateTask> stateUpdater = ArgumentCaptor.forClass(ClusterStateUpdateTask.class);
        verify(clusterService, Mockito.times(1)).submitStateUpdateTask(any(), stateUpdater.capture());
        ClusterState stateWithLicense = stateUpdater.getValue().execute(state);
        LicensesMetaData licenseMetaData = stateWithLicense.metaData().custom(LicensesMetaData.TYPE);
        assertNotNull(licenseMetaData);
        assertNotNull(licenseMetaData.getLicense());
        assertNotEquals("trial", licenseMetaData.getLicense().type());
    }
}
assertTrue(licenseMetaData.isEligibleForTrial());
assertEquals("basic", licenseMetaData.getLicense().type());
assertEquals(LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS, licenseMetaData.getLicense().expiryDate());
}

public void testNonSelfGeneratedBasicLicenseIsReplaced() throws Exception {
    long now = System.currentTimeMillis();
    String uid = UUID.randomUUID().toString();
    final License.Builder builder = License.builder()
        .uid(uid)
        .version(License.VERSION_CURRENT)
        .expiryDate(dateMath("now+2h", now))
        .startDate(now)
        .issueDate(now)
        .type("basic")
        .issuedTo("customer")
        .issuer("elasticsearch")
        .maxNodes(5);
    License license = TestUtils.generateSignedLicense(builder);
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    setInitialState(license, licenseState, Settings.EMPTY);
    when(discoveryNodes.isLocalNodeElectedMaster()).thenReturn(true);
    licenseService.start();
   MetaData.Builder mdBuilder = MetaData.builder();
    mdBuilder.putCustom(LicensesMetaData.TYPE, new LicensesMetaData(license, null));
    ClusterState state = ClusterState.builder(new ClusterName("a"))
        .metaData(mdBuilder.build()).build();
    ArgumentCaptor<ClusterStateUpdateTask> stateUpdater = ArgumentCaptor.forClass(ClusterStateUpdateTask.class);
    verify(clusterService, Mockito.times(1)).submitStateUpdateTask(any(), stateUpdater.capture());
    ClusterState stateWithLicense = stateUpdater.getValue().execute(state);
    LicensesMetaData licenseMetaData = stateWithLicense.metaData().custom(LicensesMetaData.TYPE);
    assertNotNull(licenseMetaData);
    assertNotNull(licenseMetaData.getLicense());
    assertTrue(licenseMetaData.isEligibleForTrial());
    assertEquals("basic", licenseMetaData.getLicense().type());
    assertEquals(LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS, licenseMetaData.getLicense().expiryDate());
    assertEquals(uid, licenseMetaData.getLicense().uid());
}

public void testExpiredSelfGeneratedBasicLicenseIsExtended() throws Exception {
    long now = System.currentTimeMillis();
    String uid = UUID.randomUUID().toString();
    License.Builder builder = License.builder()
        .uid(uid)
License license = SelfGeneratedLicense.create(builder, License.VERSION_CURRENT);

XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
setInitialState(license, licenseState, Settings.EMPTY);
when(discoveryNodes.isLocalNodeElectedMaster()).thenReturn(true);
licenseService.start();

MetaData.Builder mdBuilder = MetaData.builder();
mdBuilder.putCustom(LicensesMetaData.TYPE, new LicensesMetaData(license, null));
ClusterState state = ClusterState.builder(new ClusterName("a")).metaData(mdBuilder.build()).build();
ArgumentCaptor<ClusterStateUpdateTask> stateUpdater =
ArgumentCaptor.forClass(ClusterStateUpdateTask.class);
verify(clusterService, Mockito.times(1)).submitStateUpdateTask(any(), stateUpdater.capture());
ClusterState stateWithLicense = stateUpdater.getValue().execute(state);
LicensesMetaData licenseMetaData = stateWithLicense.metaData().custom(LicensesMetaData.TYPE);
assertNotNull(licenseMetaData);
assertNotNull(licenseMetaData.getLicense());
assertTrue(licenseMetaData.isEligibleForTrial());
assertEquals("basic", licenseMetaData.getLicense().type());
assertEquals(LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS,
licenseMetaData.getLicense().expiryDate());
assertEquals(uid, licenseMetaData.getLicense().uid());

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* or more contributor license agreements. Licensed under the Elastic License;
* you may not use this file except in compliance with the Elastic License.
*/
package org.elasticsearch.license;

import org.elasticsearch.Version;
import org.elasticsearch.cluster.ClusterModule;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.cluster.metadata.RepositoriesMetaData;
import org.elasticsearch.cluster.metadata.RepositoryMetaData;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.common.xcontent.NamedXContentRegistry;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.ToXContent.Params;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentFactory;
import org.elasticsearch.common.xcontent.XContentParser;
import org.elasticsearch.test.ESTestCase;
import java.util.Collections;
import java.util.UUID;
import java.util.stream.Collectors;
import java.util.stream.Stream;
import static org.hamcrest.Matchers.equalTo;
import static org.hamcrest.Matchers.notNullValue;
import static org.hamcrest.Matchers.nullValue;

public class LicensesMetaDataSerializationTests extends ESTestCase {

    public void testXContentSerializationOneSignedLicense() throws Exception {
        License license = TestUtils.generateSignedLicense(TimeValue.timeValueHours(2));
        LicensesMetaData licensesMetaData = new LicensesMetaData(license, null);
        XContentBuilder builder = XContentFactory.jsonBuilder();
        builder.startObject();
        builder.startObject("licenses");
        licensesMetaData.toXContent(builder, ToXContent.EMPTY_PARAMS);
        builder.endObject();
        builder.endObject();
        LicensesMetaData licensesMetaDataFromXContent =
        getLicensesMetaDataFromXContent(createParser(builder));
        assertThat(licensesMetaDataFromXContent.getLicense(), equalTo(license));
        assertNull(licensesMetaDataFromXContent.getMostRecentTrialVersion());
    }

    public void testXContentSerializationOneSignedLicenseWithUsedTrial() throws Exception {
        License license = TestUtils.generateSignedLicense(TimeValue.timeValueHours(2));
        LicensesMetaData licensesMetaData = new LicensesMetaData(license, Version.CURRENT);
        XContentBuilder builder = XContentFactory.jsonBuilder();
        builder.startObject();
        builder.startObject("licenses");
        licensesMetaData.toXContent(builder, ToXContent.EMPTY_PARAMS);
        builder.endObject();
        builder.endObject();
        LicensesMetaData licensesMetaDataFromXContent =
        getLicensesMetaDataFromXContent(createParser(builder));
        assertThat(licensesMetaDataFromXContent.getLicense(), equalTo(license));
        assertEquals(licensesMetaDataFromXContent.getMostRecentTrialVersion(), Version.CURRENT);
    }

    public void testLicenseMetadataParsingDoesNotSwallowOtherMetaData() throws Exception {
        new Licensing(Settings.EMPTY); // makes sure LicensePlugin is registered in Custom MetaData
        License license = TestUtils.generateSignedLicense(TimeValue.timeValueHours(2));
        LicensesMetaData licensesMetaData = new LicensesMetaData(license, Version.CURRENT);
    }
}
RepositoryMetaData repositoryMetaData = new RepositoryMetaData("repo", "fs", Settings.EMPTY);
RepositoriesMetaData repositoriesMetaData = new
RepositoriesMetaData(Collections.singletonList(repositoryMetaData));
final MetaData.Builder metaDataBuilder = MetaData.builder();
if (randomBoolean()) { // random order of insertion
    metaDataBuilder.putCustom(licensesMetaData.getWriteableName(), licensesMetaData);
    metaDataBuilder.putCustom(repositoriesMetaData.getWriteableName(), repositoriesMetaData);
} else {
    metaDataBuilder.putCustom(repositoriesMetaData.getWriteableName(), repositoriesMetaData);
    metaDataBuilder.putCustom(licensesMetaData.getWriteableName(), licensesMetaData);
}
// serialize metadata
XContentBuilder builder = XContentFactory.jsonBuilder();
Params params = new
ToXContent.MapParams(Collections.singletonMap(MetaData.CONTEXT_MODE_PARAM,
MetaData.CONTEXT_MODE_GATEWAY));
builder.startObject();
builder = metaDataBuilder.build().toXContent(builder, params);
builder.endObject();
// deserialize metadata again
MetaData metaData = MetaData.Builder.fromXContent(createParser(builder));
// check that custom metadata still present
assertThat(metaData.custom(licensesMetaData.getWriteableName()), notNullValue());
assertThat(metaData.custom(repositoriesMetaData.getWriteableName()), notNullValue());
}
public void testXContentSerializationOneTrial() throws Exception {
    long issueDate = System.currentTimeMillis();
    License.Builder specBuilder = License.builder()
        .uid(UUID.randomUUID().toString())
        .issuedTo("customer")
        .maxNodes(5)
        .issueDate(issueDate)
        .type(randomBoolean() ? "trial" : "basic")
        .expiryDate(issueDate + TimeValue.timeValueHours(2).getMillis());
    final License trialLicense = SelfGeneratedLicense.create(specBuilder, License.VERSION_CURRENT);
    LicensesMetaData licensesMetaData = new LicensesMetaData(trialLicense, Version.CURRENT);
    XContentBuilder builder = XContentFactory.jsonBuilder();
    builder.startObject();
    builder = licensesMetaData.toXContent(builder, ToXContent.EMPTY_PARAMS);
    builder.endObject();
    LicensesMetaData licensesMetaDataFromXContent =
    getLicensesMetaDataFromXContent(createParser(builder));
    assertThat(licensesMetaDataFromXContent.getLicense(), equalTo(trialLicense));
    assertEquals(licensesMetaDataFromXContent.getMostRecentTrialVersion(), Version.CURRENT);
}
public void testLicenseTombstoneFromXContext() throws Exception {
    final XContentBuilder builder = XContentFactory.jsonBuilder();
    builder.startObject();
    builder.startObject("licenses");
    builder.nullField("license");
    builder.endObject();
    builder.endObject();
    LicensesMetaData metaDataFromXContent = getLicensesMetaDataFromXContent(createParser(builder));
    assertThat(metaDataFromXContent.getLicense(), equalTo(LicensesMetaData.LICENSE_TOMBSTONE));
}

public void testLicenseTombstoneWithUsedTrialFromXContext() throws Exception {
    final XContentBuilder builder = XContentFactory.jsonBuilder();
    builder.startObject();
    builder.startObject("licenses");
    builder.nullField("license");
    builder.field("trial_license", Version.CURRENT.toString());
    builder.endObject();
    builder.endObject();
    LicensesMetaData metaDataFromXContent = getLicensesMetaDataFromXContent(createParser(builder));
    assertThat(metaDataFromXContent.getLicense(), equalTo(LicensesMetaData.LICENSE_TOMBSTONE));
    assertEquals(metaDataFromXContent.getMostRecentTrialVersion(), Version.CURRENT);
}

private static LicensesMetaData getLicensesMetaDataFromXContent(XContentParser parser) throws Exception {
    parser.nextToken(); // consume null
    parser.nextToken(); // consume "licenses"
    LicensesMetaData licensesMetaDataFromXContent = LicensesMetaData.fromXContent(parser);
    parser.nextToken(); // consume endObject
    assertThat(parser.nextToken(), nullValue());
    return licensesMetaDataFromXContent;
}

@Override
protected NamedXContentRegistry xContentRegistry() {
    return new NamedXContentRegistry(Stream.concat(
        new Licensing(Settings.EMPTY).getNamedXContent().stream(),
        ClusterModule.getNamedXWriteables().stream().
        collect(Collectors.toList()));
}

package org.elasticsearch.license;

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 */
import org.elasticsearch.client.Request;
import org.elasticsearch.client.Response;
import org.elasticsearch.client.ResponseException;
import org.elasticsearch.client.RestClient;
import org.elasticsearch.common.io.Streams;
import org.elasticsearch.common.network.NetworkModule;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.test.ESIntegTestCase;
import org.elasticsearch.transport.Netty4Plugin;
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;
import org.elasticsearch.xpack.core.XPackClientPlugin;

import java.io.InputStreamReader;
import java.nio.charset.StandardCharsets;
import java.util.Arrays;
import java.util.Collection;
import static org.elasticsearch.test.ESIntegTestCase.Scope.SUITE;

@ESIntegTestCase.ClusterScope(scope = SUITE)
public class StartTrialLicenseTests extends AbstractLicensesIntegrationTestCase {

    @Override
    protected Settings nodeSettings(int nodeOrdinal) {
        return Settings.builder()
                .put(super.nodeSettings(nodeOrdinal))
                .put("node.data", true)
                .put(LicenseService.SELF_GENERATED_LICENSE_TYPE.getKey(), "basic")
                .put(NetworkModule.HTTP_ENABLED.getKey(), true).build();
    }

    @Override
    protected Collection<Class<? extends Plugin>> nodePlugins() {
        return Arrays.asList(LocalStateCompositeXPackPlugin.class, Netty4Plugin.class);
    }

    @Override
    protected Collection<Class<? extends Plugin>> transportClientPlugins() {
        return Arrays.asList(XPackClientPlugin.class, Netty4Plugin.class);
    }

    public void testStartTrial() throws Exception {
        LicensingClient licensingClient = new LicensingClient(client());
        ensureStartingWithBasic();
        RestClient restClient = getRestClient();
Response response = restClient.performRequest(new Request("GET", "/_xpack/license/trial_status"));
String body = Streams.copyToString(new InputStreamReader(response.getEntity().getContent(),
StandardCharsets.UTF_8));
assertEquals(200, response.getStatusLine().getStatusCode());
assertEquals("{"eligible_to_start_trial":true}", body);

// Test that starting will fail without acknowledgement
Response response2 = restClient.performRequest(new Request("POST", "/_xpack/license/start_trial"));
String body2 = Streams.copyToString(new InputStreamReader(response2.getEntity().getContent(),
StandardCharsets.UTF_8));
assertEquals(200, response2.getStatusLine().getStatusCode());
assertTrue(body2.contains(""\"trial_was_started\":false\"");
assertTrue(body2.contains(""\"error_message\":\"Operation failed: Needs acknowledgement.\"");
assertTrue(body2.contains(""\"acknowledged\":false\"");

assertBusy(() -> {
    GetLicenseResponse getLicenseResponse = licensingClient.prepareGetLicense().get();
    assertEquals("basic", getLicenseResponse.license().type());
});

String type = randomFrom(LicenseService.VALID_TRIAL_TYPES);

Request ackRequest = new Request("POST", "/_xpack/license/start_trial");
ackRequest.addParameter("acknowledge", "true");
Response response3 = restClient.performRequest(ackRequest);
String body3 = Streams.copyToString(new InputStreamReader(response3.getEntity().getContent(),
StandardCharsets.UTF_8));
assertEquals(200, response3.getStatusLine().getStatusCode());
assertTrue(body3.contains(""\"trial_was_started\":true\"");
assertTrue(body3.contains(""\"type\":" + type + ","));
assertTrue(body3.contains(""\"acknowledged\":true\"");

assertBusy(() -> {
    GetLicenseResponse postTrialLicenseResponse = licensingClient.prepareGetLicense().get();
    assertEquals(type, postTrialLicenseResponse.license().type());
});

Response response4 = restClient.performRequest(new Request("GET", "/_xpack/license/trial_status"));
String body4 = Streams.copyToString(new InputStreamReader(response4.getEntity().getContent(),
StandardCharsets.UTF_8));
assertEquals(200, response4.getStatusLine().getStatusCode());
assertEquals("{"eligible_to_start_trial":false}", body4);

String secondAttemptType = randomFrom(LicenseService.VALID_TRIAL_TYPES);

Request startTrialWhenStartedRequest = new Request("POST", "/_xpack/license/start_trial");
startTrialWhenStartedRequest.addParameter("acknowledge", "true");
startTrialWhenStartedRequest.addParameter("type", secondAttemptType);
ResponseException ex = expectThrows(ResponseException.class, () ->
restClient.performRequest(startTrialWhenStartedRequest));
Response response5 = ex.getResponse();
String body5 = Streams.copyToString(new InputStreamReader(response5.getEntity().getContent(),
StandardCharsets.UTF_8));
assertEquals(403, response5.getStatusLine().getStatusCode());
assertTrue(body5.contains("trial_was_started":false"));
assertTrue(body5.contains("error_message":"Operation failed: Trial was already activated."));
}

public void testInvalidType() throws Exception {
ensureStartingWithBasic();

Request request = new Request("POST", "/_xpack/license/start_trial");
request.addParameter("type", "basic");
ResponseException ex = expectThrows(ResponseException.class, () ->
getRestClient().performRequest(request));
Response response = ex.getResponse();
String body = Streams.copyToString(new InputStreamReader(response.getEntity().getContent(),
StandardCharsets.UTF_8));
assertEquals(400, response.getStatusLine().getStatusCode());
assertTrue(body.contains("type":"illegal_argument_exception"));
assertTrue(body.contains("reason":"Cannot start trial of type [basic]. Valid trial types are ["));
}

private void ensureStartingWithBasic() throws Exception {
LicensingClient licensingClient = new LicensingClient(client());
GetLicenseResponse getLicenseResponse = licensingClient.prepareGetLicense().get();
if ("basic".equals(getLicenseResponse.license().type()) == false) {
licensingClient.preparePostStartBasic().setAcknowledge(true).get();
}

assertBusy(() -> {
GetLicenseResponse postTrialLicenseResponse = licensingClient.prepareGetLicense().get();
assertEqual("basic", postTrialLicenseResponse.license().type());
});

}"
import org.elasticsearch.test.ESTestCase;

import java.util.Arrays;

import static org.elasticsearch.test.ESTestCase.*;
import static org.hamcrest.Matchers.contains;
import static org.hamcrest.Matchers.equalTo;
import static org.hamcrest.Matchers.hasSize;

public class LicenseUtilsTests extends ESTestCase {

    public void testNewExpirationException() {
        for (String feature : Arrays.asList("feature", randomAlphaOfLength(5), null, "")) {
            ElasticsearchSecurityException exception = LicenseUtils.newComplianceException(feature);
            assertNotNull(exception);
            assertThat(exception.getMetadataKeys(), contains(LicenseUtils.EXPIRED_FEATURE_METADATA));
            assertThat(exception.getMetadata(LicenseUtils.EXPIRED_FEATURE_METADATA), hasSize(1));
            assertThat(exception.getMetadata(LicenseUtils.EXPIRED_FEATURE_METADATA).iterator().next(),
                    equalTo(feature));
        }
    }

    public void testIsLicenseExpiredException() {
        ElasticsearchSecurityException exception = LicenseUtils.newComplianceException("feature");
        assertTrue(LicenseUtils.isLicenseExpiredException(exception));

        exception = new ElasticsearchSecurityException("msg");
        assertFalse(LicenseUtils.isLicenseExpiredException(exception));
    }

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     */

    package org.elasticsearch.license;

    import org.elasticsearch.common.bytes.BytesReference;
    import org.elasticsearch.common.unit.TimeValue;
    import org.elasticsearch.common.xcontent.ToXContent;
    import org.elasticsearch.common.xcontent.XContentBuilder;
    import org.elasticsearch.common.xcontent.XContentType;
    import org.elasticsearch.test.ESTestCase;

    import java.io.IOException;
    import java.nio.ByteBuffer;
    import java.util.Base64;
    import java.util.Collections;

    import java.io.IOException;
    import java.nio.ByteBuffer;
    import java.util.Base64;
    import java.util.Collections;
}
import java.util.UUID;
import static org.elasticsearch.license.CryptUtils.encryptV3Format;
import static org.hamcrest.Matchers.equalTo;

public class SelfGeneratedLicenseTests extends ESTestCase {

    public void testBasic() throws Exception {
        long issueDate = System.currentTimeMillis();
        License.Builder specBuilder = License.builder()
            .uid(UUID.randomUUID().toString())
            .issuedTo("customer")
            .maxNodes(5)
            .type(randomBoolean() ? "trial" : "basic")
            .issueDate(issueDate)
            .expiryDate(issueDate + TimeValue.timeValueHours(2).getMillis());
        License trialLicense = SelfGeneratedLicense.create(specBuilder, License.VERSION_CURRENT);
        assertThat(SelfGeneratedLicense.verify(trialLicense), equalTo(true));
    }

    public void testTampered() throws Exception {
        long issueDate = System.currentTimeMillis();
        License.Builder specBuilder = License.builder()
            .uid(UUID.randomUUID().toString())
            .issuedTo("customer")
            .maxNodes(5)
            .expiryDate(issueDate)
            .maxNodes(issueDate)
            .expiryDate(issueDate + TimeValue.timeValueHours(2).getMillis());
        License trialLicense = SelfGeneratedLicense.create(specBuilder, License.VERSION_CURRENT);
        final String originalSignature = trialLicense.signature();
        License tamperedLicense = License.builder().fromLicenseSpec(trialLicense, originalSignature)
            .expiryDate(System.currentTimeMillis() + TimeValue.timeValueHours(5).getMillis())
            .build();
        assertThat(SelfGeneratedLicense.verify(trialLicense), equalTo(true));
        assertThat(SelfGeneratedLicense.verify(tamperedLicense), equalTo(false));
    }

    public void testFrom1x() throws Exception {
        long issueDate = System.currentTimeMillis();
        License.Builder specBuilder = License.builder()
            .uid(UUID.randomUUID().toString())
            .issuedTo("customer")
            .type("subscription")
            .subscriptionType("trial")
            .issuer("elasticsearch")
            .feature(""");
    }
}
License pre20TrialLicense = specBuilder.build();
License license =
SelfGeneratedLicense.create(License.builder().fromPre20LicenseSpec(pre20TrialLicense).type("trial"),
License.VERSION_CURRENT);
assertThat(SelfGeneratedLicense.verify(license), equalTo(true));
}

public void testTrialLicenseVerifyWithOlderVersion() throws Exception {
    assumeFalse("Can't run in a FIPS JVM. We can't generate old licenses since PBEWithSHA1AndDESede is not available", inFipsJvm());
    long issueDate = System.currentTimeMillis();
    License.Builder specBuilder = License.builder()
        .issuedTo("customer")
        .maxNodes(5)
        .issueDate(issueDate)
        .expiryDate(issueDate + TimeValue.timeValueHours(2).getMillis())
        .feature(""")
        .subscriptionType("trial")
        .version(1);
    License trialLicenseV1 = createTrialLicense(specBuilder);
    assertThat(SelfGeneratedLicense.verify(trialLicenseV1), equalTo(true));
}

private static License createTrialLicense(License.Builder specBuilder) {
    License spec = specBuilder
        .type(randomBoolean() ? "trial" : "basic")
        .issuer("elasticsearch")
        .uid(UUID.randomUUID().toString())
        .build();
    final String signature;
    try {
        XContentBuilder contentBuilder = XContentFactory.contentBuilder(XContentType.JSON);
        spec.toXContent(contentBuilder, new
ToXContent.MapParams(Collections.singletonMap(License.LICENSE_SPEC_VIEW_MODE, "true")));
        byte[] encrypt = encryptV3Format(BytesReference.toBytes(BytesReference.bytes(contentBuilder)));
        byte[] bytes = new byte[4 + 4 + encrypt.length];
        ByteBuffer byteBuffer = ByteBuffer.wrap(bytes);
        byteBuffer.putInt(-spec.version())
            .putInt(encrypt.length)
            .put(encrypt);
        signature = Base64.getEncoder().encodeToString(bytes);
    } catch (IOException e) {
        throw new IllegalStateException(e);
    }
return License.builder().fromLicenseSpec(spec, signature).build();
}
}

package org.elasticsearch.license;

import org.elasticsearch.test.ESTestCase;
import java.util.Locale;
import static org.elasticsearch.license.License.OperationMode;
import static org.hamcrest.Matchers.equalTo;

/**
 * Tests {@link License.OperationMode} for correctness.
 * <p>
 * If you change the behavior of these tests, then it means that licensing changes across the products!
 * */

public class LicenseOperationModeTests extends ESTestCase {

    public void testResolveTrial() {
        // assert 1.x BWC
        assertResolve(OperationMode.TRIAL, "nONE", "DEV", "development");
        // assert expected (2.x+) variant
        assertResolve(OperationMode.TRIAL, "tRIAL", "trial");
    }

    public void testResolveBasic() {
        // assert expected (2.x+) variant (note: no 1.x variant of BASIC)
        assertResolve(OperationMode.BASIC, "bASIC", "basic");
    }

    public void testResolveStandard() {
        // assert expected (2.x+) variant (note: no 1.x variant of STANDARD)
        assertResolve(OperationMode.STANDARD, "StAnDARd", "standard");
    }

    public void testResolveGold() {
        // assert expected (2.x+) variant (note: no different 1.x variant of GOLD)
        assertResolve(OperationMode.GOLD, "SiLvER", "gOLD", "silver", "gold");
    }

    public void testResolvePlatinum() {
        // assert 1.x BWC
        assertResolve(OperationMode.PLATINUM, "iNtErNaL");
    }
}
public void testResolveUnknown() {
    // 'enterprise' is a type that exists in cloud but should be rejected under normal operation
    // See https://github.com/elastic/x-plugins/issues/3371
    String[] types = { "unknown", "fake", "enterprise" };

    for (String type : types) {
        try {
            OperationMode.resolve(type);
        }
        catch (IllegalArgumentException e) {
            assertThat(e.getMessage(), equalTo("unknown type " + type + "]");
        }
    }
}

private static void assertResolve(OperationMode expected, String... types) {
    for (String type : types) {
        assertThat(OperationMode.resolve(type), equalTo(expected));
    }
}

package org.elasticsearch.license;

import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.test.ESTestCase;
import static org.elasticsearch.common.unit.TimeValue.timeValueMillis;
import static org.hamcrest.Matchers.equalTo;
import static org.hamcrest.Matchers.nullValue;

public class ExpirationCallbackTests extends ESTestCase {

    public void testPostExpirationDelay() throws Exception {
        TimeValue expiryDuration = TimeValue.timeValueSeconds(randomIntBetween(5, 10));
        TimeValue min = TimeValue.timeValueSeconds(1);
        TimeValue max = TimeValue.timeValueSeconds(4);
        TimeValue frequency = TimeValue.timeValueSeconds(1);
        
        // assert expected (2.x+) variant
        assertResolve(OperationMode.PLATINUM, "PlAtINum", "platinum");
    }

    // assert expected (2.x+) variant
    assertResolve(OperationMode.PLATINUM, "PlAtINum", "platinum");
}
NoopPostExpirationCallback post = new NoopPostExpirationCallback(min, max, frequency);
long now = System.currentTimeMillis();
long expiryDate = now + expiryDuration.getMillis();
assertThat(post.delay(expiryDate, now),
        equalTo(TimeValue.timeValueMillis(expiryDuration.getMillis() + min.getMillis()))); // before license expiry
assertThat(post.delay(expiryDate, expiryDate), equalTo(min)); // on license expiry
int latestValidTriggerDelay = (int) (expiryDuration.getMillis() + max.getMillis());
int earliestValidTriggerDelay = (int) (expiryDuration.getMillis() + min.getMillis());
assertExpirationCallbackDelay(post, expiryDuration.millis(), latestValidTriggerDelay,
        earliestValidTriggerDelay);
}

public void testPreExpirationDelay() throws Exception {
    TimeValue expiryDuration = TimeValue.timeValueSeconds(randomIntBetween(5, 10));
    TimeValue min = TimeValue.timeValueSeconds(1);
    TimeValue max = TimeValue.timeValueSeconds(4);
    TimeValue frequency = TimeValue.timeValueSeconds(1);
    NoopPreExpirationCallback pre = new NoopPreExpirationCallback(min, max, frequency);
    long now = System.currentTimeMillis();
    long expiryDate = now + expiryDuration.getMillis();
    assertThat(pre.delay(expiryDate, expiryDate), nullValue()); // on license expiry
    int latestValidTriggerDelay = (int) (expiryDuration.getMillis() - min.getMillis());
    int earliestValidTriggerDelay = (int) (expiryDuration.getMillis() - max.getMillis());
    assertExpirationCallbackDelay(pre, expiryDuration.millis(), latestValidTriggerDelay,
            earliestValidTriggerDelay);
}

public void testPostExpirationWithNullMax() throws Exception {
    int postExpirySeconds = randomIntBetween(5, 10);
    TimeValue postExpiryDuration = TimeValue.timeValueSeconds(postExpirySeconds);
    TimeValue min = TimeValue.timeValueSeconds(postExpirySeconds - randomIntBetween(1, 3));
    final ExpirationCallback.Post post = new NoopPostExpirationCallback(min, null, timeValueMillis(10));
    long now = System.currentTimeMillis();
    System.out.println(now - postExpiryDuration.millis());
    System.out.println(now);
    assertThat(post.delay(now - postExpiryDuration.millis(), now), equalTo(TimeValue.timeValueMillis(0)));
}

public void testPreExpirationWithNullMin() throws Exception {
    int expirySeconds = randomIntBetween(5, 10);
    TimeValue expiryDuration = TimeValue.timeValueSeconds(expirySeconds);
    TimeValue max = TimeValue.timeValueSeconds(expirySeconds + randomIntBetween(1, 10));
    final ExpirationCallback.Pre pre = new NoopPreExpirationCallback(null, max, timeValueMillis(10));
    long now = System.currentTimeMillis();
    System.out.println(now);
    System.out.println(now - expiryDuration.millis() + now);
    assertThat(pre.delay(expiryDuration.millis() + now, now), equalTo(TimeValue.timeValueMillis(0)));
}
public void testPreExpirationScheduleTime() throws Exception {
    TimeValue expiryDuration = TimeValue.timeValueSeconds(randomIntBetween(5, 10));
    TimeValue min = TimeValue.timeValueSeconds(1);
    TimeValue max = TimeValue.timeValueSeconds(4);
    TimeValue frequency = TimeValue.timeValueSeconds(1);
    NoopPreExpirationCallback pre = new NoopPreExpirationCallback(min, max, frequency);
    int latestValidTriggerDelay = (int) (expiryDuration.getMillis() - min.getMillis());
    int earliestValidTriggerDelay = (int) (expiryDuration.getMillis() - max.getMillis());
    assertExpirationCallbackScheduleTime(pre, expiryDuration.millis(), latestValidTriggerDelay, earliestValidTriggerDelay);
}

public void testPostExpirationScheduleTime() throws Exception {
    TimeValue expiryDuration = TimeValue.timeValueSeconds(randomIntBetween(5, 10));
    TimeValue min = TimeValue.timeValueSeconds(1);
    TimeValue max = TimeValue.timeValueSeconds(4);
    TimeValue frequency = TimeValue.timeValueSeconds(1);
    NoopPostExpirationCallback pre = new NoopPostExpirationCallback(min, max, frequency);
    int latestValidTriggerDelay = (int) (expiryDuration.getMillis() + max.getMillis());
    int earliestValidTriggerDelay = (int) (expiryDuration.getMillis() + min.getMillis());
    assertExpirationCallbackScheduleTime(pre, expiryDuration.millis(), latestValidTriggerDelay, earliestValidTriggerDelay);
}

private void assertExpirationCallbackDelay(ExpirationCallback expirationCallback, long expiryDuration, int latestValidTriggerDelay, int earliestValidTriggerDelay) {
    long now = System.currentTimeMillis();
    long expiryDate = now + expiryDuration;
    // bounds
    assertThat(expirationCallback.delay(expiryDate, now + earliestValidTriggerDelay), equalTo(TimeValue.timeValueMillis(0)));
    assertThat(expirationCallback.delay(expiryDate, now + latestValidTriggerDelay), equalTo(TimeValue.timeValueMillis(0)));
    // in match
    assertThat(expirationCallback.delay(expiryDate, now + randomIntBetween(earliestValidTriggerDelay, latestValidTriggerDelay)),
                equalTo(TimeValue.timeValueMillis(0)));
    // out of bounds
    int deltaBeforeEarliestMatch = between(1, earliestValidTriggerDelay);
    assertThat(expirationCallback.delay(expiryDate, now + deltaBeforeEarliestMatch),
                equalTo(TimeValue.timeValueMillis(earliestValidTriggerDelay - deltaBeforeEarliestMatch)));
    int deltaAfterLatestMatch = between(latestValidTriggerDelay + 1, Integer.MAX_VALUE); // after expiry
    assertThat(expirationCallback.delay(expiryDate, expiryDate + deltaAfterLatestMatch), nullValue());
}

public void assertExpirationCallbackScheduleTime(ExpirationCallback expirationCallback, long expiryDuration, int latestValidTriggerDelay, int earliestValidTriggerDelay) {

long now = System.currentTimeMillis();
long expiryDate = now + expiryDuration;
int validTriggerInterval = between(earliestValidTriggerDelay, latestValidTriggerDelay);
assertThat(expirationCallback.nextScheduledTimeForExpiry(expiryDate,
    now + validTriggerInterval, now + validTriggerInterval),
    equalTo(now + validTriggerInterval));
assertThat(expirationCallback.nextScheduledTimeForExpiry(expiryDate, now, now + validTriggerInterval),
    equalTo(now + validTriggerInterval + expirationCallback.getFrequency()));

int deltaBeforeEarliestMatch = between(1, earliestValidTriggerDelay - 1);
assertThat(expirationCallback.nextScheduledTimeForExpiry(expiryDate, now, now +
deltaBeforeEarliestMatch),
    equalTo(now + deltaBeforeEarliestMatch +
        expirationCallback.delay(expiryDate, now + deltaBeforeEarliestMatch).getMillis()));
assertThat(expirationCallback.nextScheduledTimeForExpiry(expiryDate, now + deltaBeforeEarliestMatch,
    now + deltaBeforeEarliestMatch),
    equalTo(now + deltaBeforeEarliestMatch +
        expirationCallback.delay(expiryDate, now + deltaBeforeEarliestMatch).getMillis()));

int deltaAfterLatestMatch = between(latestValidTriggerDelay + 1, Integer.MAX_VALUE); // after expiry and
after max
assertThat(expirationCallback.nextScheduledTimeForExpiry(expiryDate, now, now + deltaAfterLatestMatch),
    equalTo(-1L));
assertThat(expirationCallback.nextScheduledTimeForExpiry(expiryDate, now + deltaAfterLatestMatch,
    now + deltaAfterLatestMatch),
    equalTo(-1L));
}

private static class NoopPostExpirationCallback extends ExpirationCallback.Post {

    NoopPostExpirationCallback(TimeValue min, TimeValue max, TimeValue frequency) {
        super(min, max, frequency);
    }

    @Override
    public void on(License license) {}
}

private static class NoopPreExpirationCallback extends ExpirationCallback.Pre {

    NoopPreExpirationCallback(TimeValue min, TimeValue max, TimeValue frequency) {
        super(min, max, frequency);
    }

    @Override
    public void on(License license) {}
}
public class LicenseTLSTests extends AbstractLicenseServiceTestCase {

    private InetAddress inetAddress;

    public void testApplyLicenseInDevMode() throws Exception {
        License newLicense = TestUtils.generateSignedLicense(randomFrom("gold", "platinum"),
                TimeValue.timeValueHours(24L));
        PutLicenseRequest request = new PutLicenseRequest();
        request.acknowledge(true);
        request.license(newLicense);
        Settings settings = Settings.builder().put("xpack.security.enabled", true).build();
        XPackLicenseState licenseState = new XPackLicenseState(settings);
        inetAddress = InetAddress.getLoopbackAddress();
        setInitialState(null, licenseState, settings);
        licenseService.start();
        PlainActionFuture<PutLicenseResponse> responseFuture = new PlainActionFuture<>();
        licenseService.registerLicense(request, responseFuture);
        verify(clusterService).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));
        inetAddress = TransportAddress.META_ADDRESS;
        settings = Settings.builder().
                put("xpack.security.enabled", true)
                .put("discovery.type", "single-node")
                .build();
        setInitialState(null, licenseState, settings);
        licenseService.start();
        PlainActionFuture<PutLicenseResponse> responseFuture = new PlainActionFuture<>();
        licenseService.registerLicense(request, responseFuture);
        verify(clusterService).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));
    }
}
_licenseService.stop();
licenseState = new XPackLicenseState(settings);
setInitialState(null, licenseState, settings);
_licenseService.start();
_licenseService.registerLicense(request, responseFuture);
verify(clusterService, times(2)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));
}

public void testApplyLicenseInProdMode() throws Exception {
    final String licenseType = randomFrom("GOLD", "PLATINUM");
    License newLicense = TestUtils.generateSignedLicense(licenseType, TimeValue.timeValueHours(24L));
    PutLicenseRequest request = new PutLicenseRequest();
    request.acknowledge(true);
    request.license(newLicense);

    Settings settings = Settings.builder().put("xpack.security.enabled", true).build();
    XPackLicenseState licenseState = new XPackLicenseState(settings);
    inetAddress = TransportAddress.META_ADDRESS;
    setInitialState(null, licenseState, settings);
    licenseService.start();
    PlainActionFuture<PutLicenseResponse> responseFuture = new PlainActionFuture<>();
    IllegalStateException e = expectThrows(IllegalStateException.class, () ->
        licenseService.registerLicense(request, responseFuture));
    assertThat(e.getMessage(),
        containsString("Cannot install a [" + licenseType + "] license unless TLS is configured or security is
disabled");

    settings = Settings.builder().put("xpack.security.enabled", false).build();
    licenseService.stop();
    licenseState = new XPackLicenseState(settings);
    setInitialState(null, licenseState, settings);
    licenseService.start();
    licenseService.registerLicense(request, responseFuture);
    verify(clusterService).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));

    settings = Settings.builder()
        .put("xpack.security.enabled", true)
        .put("xpack.security.transport.ssl.enabled", true)
        .build();
    licenseService.stop();
    licenseState = new XPackLicenseState(settings);
    setInitialState(null, licenseState, settings);
    licenseService.start();
    licenseService.registerLicense(request, responseFuture);
    verify(clusterService, times(2)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));
}
@Override
protected DiscoveryNode getLocalNode() {
    return new DiscoveryNode("localnode", new TransportAddress(inetAddress, randomIntBetween(9300, 9399)),
                            emptyMap(), emptySet(), Version.CURRENT);
}
*/

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 */
package org.elasticsearch.license;

import org.elasticsearch.action.ActionFuture;
import org.elasticsearch.common.bytes.BytesArray;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.node.Node;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.test.ESSingleNodeTestCase;
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;
import org.elasticsearch.xpack.core.XPackSettings;
import java.nio.charset.StandardCharsets;
import java.util.Collection;
import java.util.Collections;
import java.util.UUID;
import static org.elasticsearch.license.TestUtils.dateMath;
import static org.elasticsearch.license.TestUtils.generateExpiredNonBasicLicense;
import static org.elasticsearch.license.TestUtils.generateSignedLicense;
import static org.hamcrest.CoreMatchers.equalTo;
import static org.hamcrest.CoreMatchers.not;

public class LicensesTransportTests extends ESSingleNodeTestCase {

    @Override
    protected boolean resetNodeAfterTest() {
        return true;
    }

    @Override
    protected Collection<Class<? extends Plugin>> getPlugins() {
        return Collections.singleton(LocalStateCompositeXPackPlugin.class);
    }

    @Override
    protected Collection<Class<? extends Plugin>> getPlugins() {
        return Collections.singleton(LocalStateCompositeXPackPlugin.class);
    }

}
protected Settings nodeSettings() {
    Settings.Builder newSettings = Settings.builder();
    newSettings.put(super.nodeSettings());
    newSettings.put(XPackSettings.SECURITY_ENABLED.getKey(), false);
    //    newSettings.put(XPackSettings.MONITORING_ENABLED.getKey(), false);
    //    newSettings.put(XPackSettings.WATCHER_ENABLED.getKey(), false);
    newSettings.put(Node.NODE_DATA_SETTING.getKey(), true);
    return newSettings.build();
}

public void testEmptyGetLicense() throws Exception {
    // basic license is added async, we should wait for it
    assertBusy(() -> {
        try {
            final ActionFuture<GetLicenseResponse> getLicenseFuture =
                new GetLicenseRequestBuilder(client().admin().cluster(), GetLicenseAction.INSTANCE).execute();
            final GetLicenseResponse getLicenseResponse = getLicenseFuture.get();
            assertNotNull(getLicenseResponse.license());
            assertThat(getLicenseResponse.license().operationMode(), equalTo(License.OperationMode.BASIC));
        } catch (Exception e) {
            throw new RuntimeException("unexpected exception", e);
        }
    });
}

public void testPutLicense() throws Exception {
    License signedLicense = generateSignedLicense(TimeValue.timeValueMinutes(2));
    // put license
    PutLicenseRequestBuilder putLicenseRequestBuilder =
        new PutLicenseRequestBuilder(client().admin().cluster(), PutLicenseAction.INSTANCE).setLicense(signedLicense)
            .setAcknowledge(true);
    PutLicenseResponse putLicenseResponse = putLicenseRequestBuilder.get();
    assertThat(putLicenseResponse.isAcknowledged(), equalTo(true));
    assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.VALID));
    // get and check license
    GetLicenseResponse getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
        GetLicenseAction.INSTANCE).get();
    assertThat(getLicenseResponse.license(), equalTo(signedLicense));
}

public void testPutLicenseFromString() throws Exception {
    License signedLicense = generateSignedLicense(TimeValue.timeValueMinutes(2));
    String licenseString = TestUtils.dumpLicense(signedLicense);
    // put license
    PutLicenseRequestBuilder putLicenseRequestBuilder =
        new PutLicenseRequestBuilder(client().admin().cluster(),
            PutLicenseAction.INSTANCE).setLicense(signedLicense)
            .setAcknowledge(true);
    PutLicenseResponse putLicenseResponse = putLicenseRequestBuilder.get();
    assertThat(putLicenseResponse.isAcknowledged(), equalTo(true));
    assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.VALID));
    // get and check license
    GetLicenseResponse getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
        GetLicenseAction.INSTANCE).get();
    assertThat(getLicenseResponse.license(), equalTo(signedLicense));
}
// put license source
PutLicenseRequestBuilder putLicenseRequestBuilder =
    new PutLicenseRequestBuilder(client().admin().cluster(), PutLicenseAction.INSTANCE)
        .setLicense(new BytesArray(licenseString.getBytes(StandardCharsets.UTF_8)),
            XContentType.JSON)
        .setAcknowledge(true);
PutLicenseResponse putLicenseResponse = putLicenseRequestBuilder.get();
assertThat(putLicenseResponse.isAcknowledged(), equalTo(true));
assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.VALID));

// get and check license
GetLicenseResponse getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
    GetLicenseAction.INSTANCE).get();
    assertThat(getLicenseResponse.license(), equalTo(signedLicense));
}

public void testPutInvalidLicense() throws Exception {
    License signedLicense = generateSignedLicense(TimeValue.timeValueMinutes(2));

    // modify content of signed license
    License tamperedLicense = License.builder()
        .fromLicenseSpec(signedLicense, signedLicense.signature())
        .expiryDate(signedLicense.expiryDate() + 10 * 24 * 60 * 60 * 1000L)
        .validate()
        .build();

    PutLicenseRequestBuilder builder = new PutLicenseRequestBuilder(client().admin().cluster(),
        PutLicenseAction.INSTANCE);
    builder.setLicense(tamperedLicense);
    final PutLicenseResponse putLicenseResponse = builder.get();
    assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.INVALID));

    // try to get invalid license
    GetLicenseResponse getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
        GetLicenseAction.INSTANCE).get();
    assertThat(getLicenseResponse.license(), not(tamperedLicense));
}

public void testPutBasicLicenseIsInvalid() throws Exception {
    License signedLicense = generateSignedLicense("basic", License.VERSION_CURRENT, -1,
        TimeValue.timeValueMinutes(2));

    PutLicenseRequestBuilder builder = new PutLicenseRequestBuilder(client().admin().cluster(),
        PutLicenseAction.INSTANCE);
    builder.setLicense(signedLicense);

    // try to put license (should be invalid)
    final PutLicenseResponse putLicenseResponse = builder.get();
    assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.INVALID));

    // try to get invalid license
    GetLicenseResponse getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
        GetLicenseAction.INSTANCE).get();
    assertThat(getLicenseResponse.license(), not(signedLicense));
}

public void testPutInvalidLicense() throws Exception {
    License signedLicense = generateSignedLicense(TimeValue.timeValueMinutes(2));

    // modify content of signed license
    License tamperedLicense = License.builder()
        .fromLicenseSpec(signedLicense, signedLicense.signature())
        .expiryDate(signedLicense.expiryDate() + 10 * 24 * 60 * 60 * 1000L)
        .validate()
        .build();

    PutLicenseRequestBuilder builder = new PutLicenseRequestBuilder(client().admin().cluster(),
        PutLicenseAction.INSTANCE);
    builder.setLicense(tamperedLicense);
    final PutLicenseResponse putLicenseResponse = builder.get();
    assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.INVALID));

    // try to get invalid license
    GetLicenseResponse getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
        GetLicenseAction.INSTANCE).get();
    assertThat(getLicenseResponse.license(), not(tamperedLicense));
}
// try to put license (should be invalid)
IllegalArgumentException iae = expectThrows(IllegalArgumentException.class, builder::get);
assertEquals(iae.getMessage(), "Registering basic licenses is not allowed.");

// try to get invalid license
GetLicenseResponse getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
GetLicenseAction.INSTANCE).get();
assertThat(getLicenseResponse.license(), not(signedLicense));
}

public void testPutExpiredLicense() throws Exception {
License expiredLicense = generateExpiredNonBasicLicense();
PutLicenseRequestBuilder builder = new PutLicenseRequestBuilder(client().admin().cluster(),
PutLicenseAction.INSTANCE);
builder.setLicense(expiredLicense);
PutLicenseResponse putLicenseResponse = builder.get();
assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.EXPIRED));
// get license should not return the expired license
GetLicenseResponse getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
GetLicenseAction.INSTANCE).get();
assertThat(getLicenseResponse.license(), not(expiredLicense));
}

public void testPutLicensesSimple() throws Exception {
License goldSignedLicense = generateSignedLicense("gold", TimeValue.timeValueMinutes(5));
PutLicenseRequestBuilder putLicenseRequestBuilder =
new PutLicenseRequestBuilder(client().admin().cluster(),
PutLicenseAction.INSTANCE).setLicense(goldSignedLicense)
.setAcknowledge(true);
PutLicenseResponse putLicenseResponse = putLicenseRequestBuilder.get();
assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.VALID));
GetLicenseResponse getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
GetLicenseAction.INSTANCE).get();
assertThat(getLicenseResponse.license(), equalTo(goldSignedLicense));
License platinumSignedLicense = generateSignedLicense("platinum", TimeValue.timeValueMinutes(2));
putLicenseRequestBuilder.setLicense(platinumSignedLicense);
putLicenseResponse = putLicenseRequestBuilder.get();
assertThat(putLicenseResponse.isAcknowledged(), equalTo(true));
assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.VALID));
getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
GetLicenseAction.INSTANCE).get();
assertThat(getLicenseResponse.license(), equalTo(platinumSignedLicense));
}

public void testRemoveLicensesSimple() throws Exception {
License goldLicense = generateSignedLicense("gold", TimeValue.timeValueMinutes(5));
PutLicenseRequestBuilder putLicenseRequestBuilder =
new PutLicenseRequestBuilder(client().admin().cluster(),
   PutLicenseAction.INSTANCE).setLicense(goldLicense)
   .setAcknowledge(true);
PutLicenseResponse putLicenseResponse = putLicenseRequestBuilder.get();
assertThat(putLicenseResponse.isAcknowledged(), equalTo(true));
assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.VALID));
GetLicenseResponse getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
   GetLicenseAction.INSTANCE).get();
assertThat(getLicenseResponse.license(), equalTo(goldLicense));
// delete all licenses
DeleteLicenseRequestBuilder deleteLicenseRequestBuilder =
   new DeleteLicenseRequestBuilder(client().admin().cluster(), DeleteLicenseAction.INSTANCE);
DeleteLicenseResponse deleteLicenseResponse = deleteLicenseRequestBuilder.get();
assertThat(deleteLicenseResponse.isAcknowledged(), equalTo(true));
// get licenses (expected no licenses)
getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
   GetLicenseAction.INSTANCE).get();
assertNull(getLicenseResponse.license());
}

public void testLicenseIsRejectWhenStartDateLaterThanNow() throws Exception {
   long now = System.currentTimeMillis();
   final License.Builder builder = License.builder()
      .uid(UUID.randomUUID().toString())
      .version(License.VERSION_CURRENT)
      .expiryDate(dateMath("now+2h", now))
      .startDate(dateMath("now+1h", now))
      .issueDate(now)
      .type(License.OperationMode.TRIAL.toString())
      .issuedTo("customer")
      .issuer("elasticsearch")
      .maxNodes(5);
   License license = TestUtils.generateSignedLicense(builder);
   PutLicenseRequestBuilder putLicenseRequestBuilder =
      new PutLicenseRequestBuilder(client().admin().cluster(),
         PutLicenseAction.INSTANCE).setLicense(license)
      .setAcknowledge(true);
   PutLicenseResponse putLicenseResponse = putLicenseRequestBuilder.get();
   assertThat(putLicenseResponse.isAcknowledged(), equalTo(true));
   assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.INVALID));
}

public void testLicenseIsAcceptedWhenStartDateBeforeThanNow() throws Exception {
   long now = System.currentTimeMillis();
   final License.Builder builder = License.builder()
      .uid(UUID.randomUUID().toString())
      .version(License.VERSION_CURRENT)
License license = TestUtils.generateSignedLicense(builder);

PutLicenseRequestBuilder putLicenseRequestBuilder =
    new PutLicenseRequestBuilder(client().admin().cluster(),
    PutLicenseAction.INSTANCE).setLicense(license)
    .setAcknowledge(true);
PutLicenseResponse putLicenseResponse = putLicenseRequestBuilder.get();
assertThat(putLicenseResponse.isAcknowledged(), equalTo(true));
assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.VALID));
}
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* or more contributor license agreements. Licensed under the Elastic License;
* you may not use this file except in compliance with the Elastic License.
*/
package org.elasticsearch.license;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.cluster.ClusterStateUpdateTask;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import static org.elasticsearch.common.unit.TimeValue.timeValueHours;
import static org.hamcrest.Matchers.equalTo;
import static org.hamcrest.Matchers.not;
import static org.mockito.Matchers.any;
import static org.mockito.Mockito.times;
import static org.mockito.Mockito.verify;
public class LicensesAcknowledgementTests extends AbstractLicenseServiceTestCase {

    public void testAcknowledgment() throws Exception {

        XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
        setInitialState(TestUtils.generateSignedLicense("gold", timeValueHours(2)), licenseState, Settings.EMPTY);
        licenseService.start();

        // try installing a signed license
        long issueDate = System.currentTimeMillis() - TimeValue.timeValueHours(24 * 2).getMillis();
        License signedLicense = TestUtils.generateSignedLicense("trial", License.VERSION_CURRENT, issueDate,
        timeValueHours(10));
        PutLicenseRequest putLicenseRequest = new PutLicenseRequest().license(signedLicense);

        PutLicenseRequestBuilder putLicenseRequestBuilder =
            new PutLicenseRequestBuilder(client().admin().cluster(),
            PutLicenseAction.INSTANCE).setLicense(license)
            .setAcknowledge(true);
        PutLicenseResponse putLicenseResponse = putLicenseRequestBuilder.get();
        assertThat(putLicenseResponse.isAcknowledged(), equalTo(true));
        assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.VALID));
    }
}
licenseService.registerLicense(putLicenseRequest, new AssertingLicensesUpdateResponse(false, LicensesStatus.VALID, true));

assertThat(licenseService.getLicense(), not(signedLicense));
verify(clusterService, times(0)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));

try installing a signed license with acknowledgement

guaranteeLicenseRequest = new PutLicenseRequest().license(signedLicense).acknowledge(true);
// ensure license was installed and no acknowledgment message was returned
licenseService.registerLicense(guaranteeLicenseRequest, new AssertingLicensesUpdateResponse(true, LicensesStatus.VALID, false));
verify(clusterService, times(1)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));

public void testRejectUpgradeToProductionWithoutTLS() throws Exception {

XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
setInitialState(TestUtils.generateSignedLicense("trial", timeValueHours(2)), licenseState, Settings.EMPTY);
licenseService.start();

try installing a signed license

License signedLicense = TestUtils.generateSignedLicense("platinum", timeValueHours(10));
PutLicenseRequest putLicenseRequest = new PutLicenseRequest().license(signedLicense);
// ensure acknowledgement message was part of the response
IllegalStateException ise = expectThrows(IllegalStateException.class, () ->
    licenseService.registerLicense(putLicenseRequest, new AssertingLicensesUpdateResponse(false, LicensesStatus.VALID, true)));

assertThat(licenseService.getLicense(), not(signedLicense));
verify(clusterService, times(1)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));

public void testUpgradeToProductionWithoutTLSAndSecurityDisabled() throws Exception {

XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
setInitialState(TestUtils.generateSignedLicense("trial", timeValueHours(2)), licenseState, Settings.builder()
    .put("xpack.security.enabled", false).build());
licenseService.start();

try installing a signed license

License signedLicense = TestUtils.generateSignedLicense("platinum", timeValueHours(10));
PutLicenseRequest putLicenseRequest = new PutLicenseRequest().license(signedLicense);
licenseService.registerLicense(putLicenseRequest, new AssertingLicensesUpdateResponse(true, LicensesStatus.VALID, false));
verify(clusterService, times(2)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));

// try installing a signed license with acknowledgement
putLicenseRequest = new PutLicenseRequest().license(signedLicense).acknowledge(true);
// ensure license was installed and no acknowledgment message was returned
licenseService.registerLicense(putLicenseRequest, new AssertingLicensesUpdateResponse(true, LicensesStatus.VALID, false));
verify(clusterService, times(2)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));
public void testUpgradeToProductionWithTLSAndSecurity() throws Exception {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    setStateInitialState(TestUtils.generateSignedLicense("trial", timeValueHours(2)), licenseState, Settings.builder()
        .put("xpack.security.enabled", true)
        .put("xpack.security.transport.ssl.enabled", true).build());
    licenseService.start();
    // try installing a signed license
    License signedLicense = TestUtils.generateSignedLicense("platinum", timeValueHours(10));
    PutLicenseRequest putLicenseRequest = new PutLicenseRequest().license(signedLicense);
    licenseService.registerLicense(putLicenseRequest, new AssertingLicensesUpdateResponse(false,
        LicensesStatus.VALID, true));
    assertThat(licenseService.getLicense(), not(signedLicense));
    verify(clusterService, times(1)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));

    // try installing a signed license with acknowledgement
    putLicenseRequest = new PutLicenseRequest().license(signedLicense).acknowledge(true);
    // ensure license was installed and no acknowledgment message was returned
    licenseService.registerLicense(putLicenseRequest, new AssertingLicensesUpdateResponse(true,
        LicensesStatus.VALID, false));
    verify(clusterService, times(2)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));
}

private static class AssertingLicensesUpdateResponse implements ActionListener<PutLicenseResponse> {
    private final boolean expectedAcknowledgement;
    private final LicensesStatus expectedStatus;
    private final boolean expectAckMessages;
    AssertingLicensesUpdateResponse(boolean expectedAcknowledgement, LicensesStatus expectedStatus,
        boolean expectAckMessages) {
        this.expectedAcknowledgement = expectedAcknowledgement;
        this.expectedStatus = expectedStatus;
        this.expectAckMessages = expectAckMessages;
    }

    @Override
    public void onResponse(PutLicenseResponse licensesUpdateResponse) {
        assertThat(licensesUpdateResponse.isAcknowledged(), equalTo(expectedAcknowledgement));
        assertThat(licensesUpdateResponse.status(), equalTo(expectedStatus));
        assertEquals(licensesUpdateResponse.acknowledgeMessages().isEmpty(), expectAckMessages == false);
    }

    @Override
    public void onFailure(Exception throwable) {
        throw new RuntimeException(throwable);
    }
}

private static class AssertingLicensesUpdateResponse implements ActionListener<PutLicenseResponse> {
    private final boolean expectedAcknowledgement;
    private final LicensesStatus expectedStatus;
    private final boolean expectAckMessages;
    AssertingLicensesUpdateResponse(boolean expectedAcknowledgement, LicensesStatus expectedStatus,
        boolean expectAckMessages) {
        this.expectedAcknowledgement = expectedAcknowledgement;
        this.expectedStatus = expectedStatus;
        this.expectAckMessages = expectAckMessages;
    }

    @Override
    public void onResponse(PutLicenseResponse licensesUpdateResponse) {
        assertThat(licensesUpdateResponse.isAcknowledged(), equalTo(expectedAcknowledgement));
        assertThat(licensesUpdateResponse.status(), equalTo(expectedStatus));
        assertEquals(licensesUpdateResponse.acknowledgeMessages().isEmpty(), expectAckMessages == false);
    }

    @Override
    public void onFailure(Exception throwable) {
        throw new RuntimeException(throwable);
    }
}
package org.elasticsearch.license;

import org.elasticsearch.Version;
import org.elasticsearch.cluster.ClusterName;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.block.ClusterBlocks;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.cluster.node.DiscoveryNode;
import org.elasticsearch.cluster.node.DiscoveryNodes;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.component.Lifecycle;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.env.Environment;
import org.elasticsearch.test.ESTestCase;
import org.elasticsearch.watcher.ResourceWatcherService;
import org.elasticsearch.xpack.core.XPackPlugin;
import org.elasticsearch.xpack.core.watcher.watch.ClockMock;
import org.junit.After;
import org.junit.Before;
import java.nio.file.Path;
import java.util.Arrays;
import static java.util.Collections.emptySet;
import static java.util.Collections.singletonMap;
import static org.mockito.Mockito.mock;
import static org.mockito.Mockito.when;

public abstract class AbstractLicenseServiceTestCase extends ESTestCase {

    protected LicenseService licenseService;
    protected ClusterService clusterService;
    protected ResourceWatcherService resourceWatcherService;
    protected ClockMock clock;
    protected DiscoveryNodes discoveryNodes;
    protected Environment environment;
    protected String licenseType;

    @Before
    public void init() throws Exception {
        clusterService = mock(ClusterService.class);
        clock = ClockMock.frozen();

        // Other initializations...
    }
}
discoveryNodes = mock(DiscoveryNodes.class);
resourceWatcherService = mock(ResourceWatcherService.class);
environment = mock(Environment.class);
}

protected void setInitialState(License license, XPackLicenseState licenseState, Settings settings) {
    setInitialState(license, licenseState, settings, randomBoolean() ? "trial" : "basic");
}

protected void setInitialState(License license, XPackLicenseState licenseState, Settings settings, String selfGeneratedType) {
    Path tempDir = createTempDir();
    when(environment.configFile()).thenReturn(tempDir);
    licenseType = selfGeneratedType;
    settings = Settings.builder().put(settings).put(LicenseService.SELF_GENERATED_LICENSE_TYPE.getKey(), licenseType).build();
    licenseService = new LicenseService(settings, clusterService, clock, environment, resourceWatcherService, licenseState);
    ClusterState state = mock(ClusterState.class);
    final ClusterBlocks noBlock = ClusterBlocks.builder().build();
    when(state.blocks()).thenReturn(noBlock);
    MetaData metaData = mock(MetaData.class);
    when(metaData.custom(LicensesMetaData.TYPE)).thenReturn(new LicensesMetaData(license, null));
    when(state.metaData()).thenReturn(metaData);
    final DiscoveryNode mockNode = getLocalNode();
    when(discoveryNodes.getMasterNode()).thenReturn(mockNode);
    when(discoveryNodes.spliterator()).thenReturn(Arrays.asList(mockNode).spliterator());
    when(discoveryNodes.isLocalNodeElectedMaster()).thenReturn(false);
    when(state.nodes()).thenReturn(discoveryNodes); // it is really ridiculous we have nodes() and getNodes()...
    when(clusterService.state()).thenReturn(state);
    when(clusterService.lifecycleState()).thenReturn(Lifecycle.State.STARTED);
    when(clusterService.getClusterName()).thenReturn(new ClusterName("a"));
    when(clusterService.localNode()).thenReturn(mockNode);
}

protected DiscoveryNode getLocalNode() {
    return new DiscoveryNode("b", buildNewFakeTransportAddress(),
    singletonMap(XPackPlugin.XPACK_INSTALLED_NODE_ATTR, "true"),
    emptySet(), Version.CURRENT);
}

@After
public void tearDown() throws Exception {
    super.tearDown();
    licenseService.stop();
}
package org.elasticsearch.license;

import org.elasticsearch.action.support.PlainActionFuture;
import org.elasticsearch.cluster.ClusterStateUpdateTask;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import static org.hamcrest.Matchers.containsString;
import static org.mockito.Matchers.any;
import static org.mockito.Mockito.verify;

public class LicenseFIPSTests extends AbstractLicenseServiceTestCase {

    public void testFIPSCheckWithAllowedLicense() throws Exception {
        License newLicense = TestUtils.generateSignedLicense(randomFrom("trial", "platinum"),
                TimeValue.timeValueHours(24L));
        PutLicenseRequest request = new PutLicenseRequest();
        request.acknowledge(true);
        request.license(newLicense);
        Settings settings = Settings.builder()
                .put("xpack.security.enabled", true)
                .put("xpack.security.transport.ssl.enabled", true)
                .put("xpack.security.fips_mode.enabled", randomBoolean())
                .build();
        XPackLicenseState licenseState = new XPackLicenseState(settings);
        setInitialState(null, licenseState, settings);
        licenseService.start();
        PlainActionFuture<PutLicenseResponse> responseFuture = new PlainActionFuture<>();
        licenseService.registerLicense(request, responseFuture);
        verify(clusterService).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));
    }

    public void testFIPSCheckWithoutAllowedLicense() throws Exception {
        License newLicense = TestUtils.generateSignedLicense(randomFrom("gold", "standard"),
                TimeValue.timeValueHours(24L));
        PutLicenseRequest request = new PutLicenseRequest();
        request.acknowledge(true);
        request.license(newLicense);
        Settings settings = Settings.builder()
                .put("xpack.security.enabled", true)
                .build();
        XPackLicenseState licenseState = new XPackLicenseState(settings);
        setInitialState(null, licenseState, settings);
        licenseService.start();
        PlainActionFuture<PutLicenseResponse> responseFuture = new PlainActionFuture<>();
        licenseService.registerLicense(request, responseFuture);
        verify(clusterService).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));
    }
}
.put("xpack.security.transport.ssl.enabled", true)
 .put("xpack.security.fips_mode.enabled", true)
 .build();
XPackLicenseState licenseState = new XPackLicenseState(settings);

setInitialState(null, licenseState, settings);
licenseService.start();
PlainActionFuture<PutLicenseResponse> responseFuture = new PlainActionFuture<>();
IllegalStateException e = expectThrows(IllegalStateException.class, () ->
licenseService.registerLicense(request, responseFuture));
assertThat(e.getMessage(),
    containsString("Cannot install a [" + newLicense.operationMode() + "] license unless FIPS mode is
disabled");
licenseService.stop();

settings = Settings.builder()
 .put("xpack.security.enabled", true)
 .put("xpack.security.transport.ssl.enabled", true)
 .put("xpack.security.fips_mode.enabled", false)
 .build();
licenseState = new XPackLicenseState(settings);

setInitialState(null, licenseState, settings);
licenseService.start();
licenseService.registerLicense(request, responseFuture);
verify(clusterService).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));
}
}

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 * or more contributor license agreements. Licensed under the Elastic License;
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 */
package org.elasticsearch.license;

import org.elasticsearch.Version;
import org.elasticsearch.cluster.ClusterChangedEvent;
import org.elasticsearch.cluster.ClusterName;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.cluster.ClusterStateUpdateTask;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.cluster.cluster.node.DiscoveryNode;
import org.elasticsearch.cluster.node.DiscoveryNodes;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import org.junit.After;
import org.junit.Before;
import org.mockito.ArgumentCaptor;
import static java.util.Collections.emptyMap;
import static java.util.Collections.emptySet;
import static org.hamcrest.Matchers.equalTo;
import static org.mockito.Matchers.any;
import static org.mockito.Mockito.times;
import static org.mockito.Mockito.verify;
import static org.mockito.Mockito.when;

public class LicenseClusterChangeTests extends AbstractLicenseServiceTestCase {

    private TestUtils.AssertingLicenseState licenseState;

    @Before
    public void setup() {
        licenseState = new TestUtils.AssertingLicenseState();
        setInitialState(null, licenseState, Settings.EMPTY);
        licenseService.start();
    }

    @After
    public void teardown() {
        licenseService.stop();
    }

    public void testNotificationOnNewLicense() throws Exception {
        ClusterState oldState = ClusterState.builder(new ClusterName("a")).build();
        final License license = TestUtils.generateSignedLicense(TimeValue.timeValueHours(24));
        MetaData metaData = MetaData.builder().putCustom(LicensesMetaData.TYPE, new LicensesMetaData(license, null)).build();
        ClusterState newState = ClusterState.builder(new ClusterName("a")).metaData(metaData).build();
        licenseService.clusterChanged(new ClusterChangedEvent("simulated", newState, oldState));
        assertThat(licenseState.activeUpdates.size(), equalTo(1));
        assertTrue(licenseState.activeUpdates.get(0));
    }

    public void testNoNotificationOnExistingLicense() throws Exception {
        final License license = TestUtils.generateSignedLicense(TimeValue.timeValueHours(24));
        MetaData metaData = MetaData.builder().putCustom(LicensesMetaData.TYPE, new LicensesMetaData(license, null)).build();
        ClusterState newState = ClusterState.builder(new ClusterName("a")).metaData(metaData).build();
        ClusterState oldState = ClusterState.builder(newState).build();
        ClusterState newState2 = ClusterState.builder(newState).build();
        ClusterState oldState2 = ClusterState.builder(oldState).build();
        licenseService.clusterChanged(new ClusterChangedEvent("simulated", newState, oldState));
        licenseService.clusterChanged(new ClusterChangedEvent("simulated", newState2, oldState2));
        assertThat(licenseState.activeUpdates.size(), equalTo(0));
    }

    public void testSelfGeneratedLicenseGeneration() throws Exception {

}
DiscoveryNode master = new DiscoveryNode("b", buildNewFakeTransportAddress(), emptyMap(), emptySet(), Version.CURRENT);
ClusterState oldState = ClusterState.builder(new ClusterName("a"))
    .nodes(DiscoveryNodes.builder().masterNodeId(master.getId()).add(master)).build();
when(discoveryNodes.isLocalNodeElectedMaster()).thenReturn(true);
ClusterState newState = ClusterState.builder(oldState).nodes(discoveryNodes).build();

licenseService.clusterChanged(new ClusterChangedEvent("simulated", newState, oldState));
ArgumentCaptor<ClusterStateUpdateTask> stateUpdater = ArgumentCaptor.forClass(ClusterStateUpdateTask.class);
verify(clusterService, times(1)).submitStateUpdateTask(any(), stateUpdater.capture());
ClusterState stateWithLicense = stateUpdater.getValue().execute(newState);
LicensesMetaData licenseMetaData = stateWithLicense.metaData().custom(LicensesMetaData.TYPE);
assertNotNull(licenseMetaData);
assertNotNull(licenseMetaData.getLicense());
assertEquals(licenseType, licenseMetaData.getLicense().type());
long expiration;
if (licenseType.equals("basic")) {
    expiration = LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS;
} else {
    expiration = LicenseService.NON_BASIC_SELF_GENERATED_LICENSE_DURATION.millis() +
        clock.millis();
}
assertEquals(expiration, licenseMetaData.getLicense().expiryDate());
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 */
package org.elasticsearch.xpack.core.security.authz.permission;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.test.ESTestCase;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collections;
import java.util.List;
public class FieldPermissionsCacheTests extends ESTestCase {

    public void testFieldPermissionsCaching() {
        FieldPermissionsCache fieldPermissionsCache = new FieldPermissionsCache(Settings.EMPTY);
        String[] allowed = new String[] {
            randomAlphaOfLength(5) + "*", randomAlphaOfLength(5) + "*",
            randomAlphaOfLength(5) + "*", randomAlphaOfLength(5) + "*",
        };
        String[] denied = new String[] {
            allowed[0] + randomAlphaOfLength(5), allowed[1] +
        };

        fieldPermissionsCache.loadFieldPermissions(allowed, denied);
        List<String> result = fieldPermissionsCache.getFieldPermissions("field");
        assertEquals(allowed.length, result.size());
        for (int i = 0; i < allowed.length; i++) {
            assertEquals(allowed[i], result.get(i));
        }
    }
}
randomAlphaOfLength(5),
allowed[2] + randomAlphaOfLength(5)};
FieldPermissions fieldPermissions = fieldPermissionsCache.getFieldPermissions(allowed, denied);
assertNotNull(fieldPermissions);
final String[] allowed2 = randomBoolean() ? allowed : Arrays.copyOf(allowed, allowed.length);
final String[] denied2 = randomBoolean() ? denied : Arrays.copyOf(denied, denied.length);
assertSame(fieldPermissions, fieldPermissionsCache.getFieldPermissions(allowed2, denied2));
}
public void testMergeFieldPermissions() {
FieldPermissionsCache fieldPermissionsCache = new FieldPermissionsCache(Settings.EMPTY);
String allowedPrefix1 = randomAlphaOfLength(5);
String allowedPrefix2 = randomAlphaOfLength(5);
String[] allowed1 = new String[]{allowedPrefix1 + "*"};
String[] allowed2 = new String[]{allowedPrefix2 + "*"};
String[] denied1 = new String[]{allowedPrefix1 + "a"};
String[] denied2 = new String[]{allowedPrefix2 + "a"};
FieldPermissions fieldPermissions1 = randomBoolean() ?
fieldPermissionsCache.getFieldPermissions(allowed1, denied1) :
new FieldPermissions(fieldPermissionDef(allowed1, denied1));
FieldPermissions fieldPermissions2 = randomBoolean() ?
fieldPermissionsCache.getFieldPermissions(allowed2, denied2) :
new FieldPermissions(fieldPermissionDef(allowed2, denied2));
FieldPermissions mergedFieldPermissions =
fieldPermissionsCache.getFieldPermissions(Arrays.asList(fieldPermissions1, fieldPermissions2));
assertTrue(mergedFieldPermissions.grantsAccessTo(allowedPrefix1 + "b"));
assertTrue(mergedFieldPermissions.grantsAccessTo(allowedPrefix2 + "b"));
assertFalse(mergedFieldPermissions.grantsAccessTo(denied1[0]));
assertFalse(mergedFieldPermissions.grantsAccessTo(denied2[0]));
allowed1 = new String[]{randomAlphaOfLength(5) + "*", randomAlphaOfLength(5) + "*"};
allowed2 = null;
denied1 = new String[]{allowed1[0] + "a", allowed1[1] + "a"};
denied2 = null;
fieldPermissions1 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed1, denied1) :
new FieldPermissions(fieldPermissionDef(allowed1, denied1));
fieldPermissions2 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed2, denied2) :
new FieldPermissions(fieldPermissionDef(allowed2, denied2));
mergedFieldPermissions =
fieldPermissionsCache.getFieldPermissions(Arrays.asList(fieldPermissions1, fieldPermissions2));
assertFalse(mergedFieldPermissions.hasFieldLevelSecurity());
allowed1 = new String[]{};
allowed2 = new String[]{randomAlphaOfLength(5) + "*", randomAlphaOfLength(5) + "*"};
denied1 = new String[]{};
denied2 = new String[]{allowed2[0] + "a", allowed2[1] + "a"};
fieldPermissions1 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed1, denied1) :
new FieldPermissions(fieldPermissionDef(allowed1, denied1));

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fieldPermissions2 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed2, denied2) : 
    new FieldPermissions(fieldPermissionDef(allowed2, denied2));
mergedFieldPermissions =
    fieldPermissionsCache.getFieldPermissions(Arrays.asList(fieldPermissions1, fieldPermissions2));
for (String field : allowed2) {
    assertTrue(mergedFieldPermissions.grantsAccessTo(field));
}
for (String field : denied2) {
    assertFalse(mergedFieldPermissions.grantsAccessTo(field));
}

allowed1 = randomBoolean() ? null : new String[] {"*"};
allowed2 = randomBoolean() ? null : new String[] {"*"};
denied1 = new String[] {"a"};
denied2 = new String[] {"b"};
fieldPermissions1 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed1, denied1) : 
    new FieldPermissions(fieldPermissionDef(allowed1, denied1));
fieldPermissions2 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed2, denied2) : 
    new FieldPermissions(fieldPermissionDef(allowed2, denied2));
mergedFieldPermissions =
    fieldPermissionsCache.getFieldPermissions(Arrays.asList(fieldPermissions1, fieldPermissions2));
assertTrue(mergedFieldPermissions.grantsAccessTo("a"));
assertTrue(mergedFieldPermissions.grantsAccessTo("b"));

// test merge does not remove _all
allowed1 = new String[] {"_all"};
allowed2 = new String[] {};
denied1 = null;
denied2 = null;
fieldPermissions1 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed1, denied1) : 
    new FieldPermissions(fieldPermissionDef(allowed1, denied1));
fieldPermissions2 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed2, denied2) : 
    new FieldPermissions(fieldPermissionDef(allowed2, denied2));
mergedFieldPermissions =
    fieldPermissionsCache.getFieldPermissions(Arrays.asList(fieldPermissions1, fieldPermissions2));
assertTrue(fieldPermissions1.grantsAccessTo("_all"));
assertFalse(fieldPermissions2.grantsAccessTo("_all"));
assertTrue(mergedFieldPermissions.grantsAccessTo("_all"));

allowed1 = new String[] { "a*" };
allowed2 = new String[] { "b*" };  
denied1 = new String[] { "aa*" };

denied2 = null;
fieldPermissions1 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed1, denied1) : 
    new FieldPermissions(fieldPermissionDef(allowed1, denied1));
fieldPermissions2 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed2, denied2) : 
    new FieldPermissions(fieldPermissionDef(allowed2, denied2));
mergedFieldPermissions =

fieldPermissionsCache.getFieldPermissions(Arrays.asList(fieldPermissions1, fieldPermissions2));
assertTrue(mergedFieldPermissions.grantsAccessTo("a"));
assertTrue(mergedFieldPermissions.grantsAccessTo("b"));
assertFalse(mergedFieldPermissions.grantsAccessTo("aa"));
assertFalse(mergedFieldPermissions.grantsAccessTo("aa1"));
assertTrue(mergedFieldPermissions.grantsAccessTo("a1"));

public void testNonFlsAndFlsMerging() {
    List<FieldPermissions> permissionsList = new ArrayList<>();
    permissionsList.add(new FieldPermissions(fieldPermissionDef(new String[] {"field1"}, null)));
    permissionsList.add(new FieldPermissions(fieldPermissionDef(new String[] {"field2", "query*"}, null)));
    permissionsList.add(new FieldPermissions(fieldPermissionDef(new String[] {"field1", "field2"}, null)));
    permissionsList.add(new FieldPermissions(fieldPermissionDef(new String[] {}, null)));
    permissionsList.add(new FieldPermissions(fieldPermissionDef(null, null)));

    FieldPermissionsCache cache = new FieldPermissionsCache(Settings.EMPTY);
    for (int i = 0; i < scaledRandomIntBetween(1, 12); i++) {
        Collections.shuffle(permissionsList, random());
        FieldPermissions result = cache.getFieldPermissions(permissionsList);
        assertFalse(result.hasFieldLevelSecurity());
    }
}

private static FieldPermissionsDefinition fieldPermissionDef(String[] granted, String[] denied) {
    return new FieldPermissionsDefinition(granted, denied);
}

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import org.elasticsearch.common.collect.Tuple;
import org.elasticsearch.common.util.set.Sets;
import org.elasticsearch.test.ESTestCase;
import org.elasticsearch.xpack.core.security.authz.privilege.ApplicationPrivilege;
import org.elasticsearch.xpack.core.security.authz.privilege.ApplicationPrivilegeDescriptor;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collections;
import java.util.List;
import static java.util.Collections.singletonList;
import static org.hamcrest.Matchers.equalTo;
public class ApplicationPermissionTests extends ESTestCase {

    private List<ApplicationPrivilegeDescriptor> store = new ArrayList<>();

    private ApplicationPrivilege app1All = storePrivilege("app1", "all", "*");
    private ApplicationPrivilege app1Empty = storePrivilege("app1", "empty");
    private ApplicationPrivilege app1Read = storePrivilege("app1", "read", "read/*");
    private ApplicationPrivilege app1Write = storePrivilege("app1", "write", "write/*");
    private ApplicationPrivilege app1Delete = storePrivilege("app1", "delete", "write/delete");
    private ApplicationPrivilege app1Create = storePrivilege("app1", "create", "write/create");
    private ApplicationPrivilege app2Read = storePrivilege("app2", "read", "read/*");

    private ApplicationPrivilege storePrivilege(String app, String name, String... patterns) {
        store.add(new ApplicationPrivilegeDescriptor(app, name, Sets.newHashSet(patterns),
                Collections.emptyMap()));
        return new ApplicationPrivilege(app, name, patterns);
    }

    public void testCheckSimplePermission() {
        final ApplicationPermission hasPermission = buildPermission(app1Write, "*");
        assertThat(hasPermission.grants(app1Write, "*"), equalTo(true));
        assertThat(hasPermission.grants(app1Write, "foo"), equalTo(true));
        assertThat(hasPermission.grants(app1Delete, "*"), equalTo(true));
        assertThat(hasPermission.grants(app1Create, "foo"), equalTo(true));
        assertThat(hasPermission.grants(app1Read, "*"), equalTo(false));
        assertThat(hasPermission.grants(app1Read, "foo"), equalTo(false));
        assertThat(hasPermission.grants(app1All, "*"), equalTo(false));
        assertThat(hasPermission.grants(app1All, "foo"), equalTo(false));
    }

    public void testNonePermission() {
        final ApplicationPermission hasPermission = buildPermission(ApplicationPrivilege.NONE.apply("app1"), "*");
        for (ApplicationPrivilege privilege : Arrays.asList(app1All, app1Empty, app1Create, app1Delete, app1Read,
                app1Write, app2Read)) {
            String resource = randomAlphaOfLengthBetween(1, 6);
            assertAll(("Privilege " + privilege + " on " + resource, hasPermission.grants(privilege, resource),
                equalTo(false));
        }
    }

    public void testResourceMatching() {
        final ApplicationPermission hasPermission = buildPermission(app1All, "dashboard/**", "audit/**", 
                "user/12345");

        assertAll(("Privilege " + privilege + " on " + resource, hasPermission.grants(privilege, resource),
                equalTo(false));
    }
}
assertThat(hasPermission.grants(app1Write, "dashboard"), equalTo(false));
assertThat(hasPermission.grants(app1Write, "dashboard/999"), equalTo(true));

assertThat(hasPermission.grants(app1Create, "audit/2018-02-21"), equalTo(true));
assertThat(hasPermission.grants(app1Create, "report/2018-02-21"), equalTo(false));

assertThat(hasPermission.grants(app1Read, "user/12345"), equalTo(true));
assertThat(hasPermission.grants(app1Read, "user/67890"), equalTo(false));

assertThat(hasPermission.grants(app1All, "dashboard/999"), equalTo(true));
assertThat(hasPermission.grants(app1All, "audit/2018-02-21"), equalTo(true));
assertThat(hasPermission.grants(app1All, "user/12345"), equalTo(true));
}

public void testActionMatching() {
    final ApplicationPermission hasPermission = buildPermission(app1Write, "allow/*");

    final ApplicationPrivilege update = actionPrivilege("app1", "write/update");
    assertThat(hasPermission.grants(update, "allow/1"), equalTo(true));
    assertThat(hasPermission.grants(update, "deny/1"), equalTo(false));

    final ApplicationPrivilege updateCreate = actionPrivilege("app1", "write/update", "write/create");
    assertThat(hasPermission.grants(updateCreate, "allow/1"), equalTo(true));
    assertThat(hasPermission.grants(updateCreate, "deny/1"), equalTo(false));

    final ApplicationPrivilege manage = actionPrivilege("app1", "admin/manage");
    assertThat(hasPermission.grants(manage, "allow/1"), equalTo(false));
    assertThat(hasPermission.grants(manage, "deny/1"), equalTo(false));
}

public void testDoesNotMatchAcrossApplications() {
    assertThat(buildPermission(app1Read, "*").grants(app1Read, "123"), equalTo(true));
    assertThat(buildPermission(app1All, "*").grants(app1Read, "123"), equalTo(true));

    assertThat(buildPermission(app1Read, "*").grants(app2Read, "123"), equalTo(false));
    assertThat(buildPermission(app1All, "*").grants(app2Read, "123"), equalTo(false));
}

public void testMergedPermissionChecking() {
    final ApplicationPrivilege app1ReadWrite = ApplicationPrivilege.get("app1", Sets.union(app1Read.name(),
app1Write.name()), store);
    final ApplicationPermission hasPermission = buildPermission(app1ReadWrite, "allow/*");

    assertThat(hasPermission.grants(app1Read, "allow/1"), equalTo(true));
    assertThat(hasPermission.grants(app1Write, "allow/1"), equalTo(true));
    assertThat(hasPermission.grants(app1Read, "deny/1"), equalTo(false));
    assertThat(hasPermission.grants(app1Write, "deny/1"), equalTo(false));
assertThat(hasPermission.grants(app1All, "allow/1"), equalTo(false));
assertThat(hasPermission.grants(app2Read, "allow/1"), equalTo(false));
}

private ApplicationPrivilege actionPrivilege(String appName, String... actions) {
    return ApplicationPrivilege.get(appName, Sets.newHashSet(actions), Collections.emptyList());
}

private ApplicationPermission buildPermission(ApplicationPrivilege privilege, String... resources) {
    return new ApplicationPermission(singletonList(new Tuple<>(privilege, Sets.newHashSet(resources))));
}
}

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```json
{
  "xpack.license.get_basic_status": {
    "methods": ["GET"],
    "url": {
      "path": "/_xpack/license/basic_status",
      "paths": ["/_xpack/license/basic_status"],
      "parts": {},
      "params": {
        }
    },
    "body": null
  }
}
{
  "xpack.license.get_trial_status": {
    "methods": ["GET"],
    "url": {
      "path": "/_xpack/license/trial_status",
      "paths": ["/_xpack/license/trial_status"],
      "parts": {},
      "params": {
        }
    },
    "body": null
  }
}
```
"paths": ["/_xpack/license/trial_status"],
"parts" : { 
  
},
"params": { 
  
},
"body": null
}
}

"xpack.license.delete": { 
"methods": ["DELETE"],
"url": { 
  "path": "/_xpack/license",
  "paths": ["/_xpack/license"],
  "parts" : {} 
},
"body": null
}
}

"xpack.license.post_start_trial": { 
"methods": ["POST"],
"url": { 
  "path": "/_xpack/license/start_trial",
  "paths": ["/_xpack/license/start_trial"],
  "parts" : {} 
},
"params": { 
  "type": { 
    "type" : "string",
    "description" : "The type of trial license to generate (default: \"trial\")"
  },
  "acknowledge": { 
    "type" : "boolean",
    "description" : "whether the user has acknowledged acknowledge messages (default: false)"
  } 
},
"body": null
}
}

"xpack.license.post_start_basic": { 
"methods": ["POST"],
"url": {
  "path": "/_xpack/license/start_basic",
  "paths": ["/_xpack/license/start_basic"],
  "parts": {
  },
  "params": {
    "acknowledge": {
      "type": "boolean",
      "description": "whether the user has acknowledged acknowledge messages (default: false)"
    }
  }
},
"body": null
},
"xpack.license.get": {
  "methods": ["GET"],
  "url": {
    "path": "/_xpack/license",
    "paths": ["/_xpack/license"],
    "parts": {
    },
    "params": {
      "local": {
        "type": "boolean",
        "description": "Return local information, do not retrieve the state from master node (default: false)"
      }
    },
    "body": null
  }
},
"xpack.license.post": {
  "methods": ["PUT", "POST"],
  "url": {
    "path": "/_xpack/license",
    "paths": ["/_xpack/license"],
    "parts": {
    },
    "params": {
      "acknowledge": {
        "type": "boolean",
        "description": "whether the user has acknowledged acknowledge messages (default: false)"
      }
    }
  }
}
---
teardown:
- do:
xpack.license.post:
  acknowledge: true
  body: |
  "licenses": [{"uid":"3aa62ffe-36e1-4fad-bfdc-9df8301eb22","type":"trial","issue_date_in_millis":1523456691721,"max_nodes":5,"issued_to":"customer","issuer":"elasticsearch","signature":"AAAAABAAAAA2kWNcuc+DT0rlmYZKA AAAlAo5x6hrsGh1QqqJmy4qmEC7gk0U4zQ6q5ZEMhm4jAAABAE6fG9y2VxKBu2T3D5hfh6kzqQOD COdhr0y2d17Z1JMZRqO7ZywPCWNSla33GhIHKfTER0ysML0xMH/gXavhyRvMBndJ0UBKzupwTawSNlx YtcqN8mSBlvJC7Ki+uj1SpAIC2ZP9fnkRlqwXQBTtfY7n7nzGzu9DKrOWru/iptP0bo7jcePl8VT6nWFen7/hCDFQUTFZ0lJQvd+ncq7A1PacHGNxGfdMVMeAXCxgGWkRtT3clo9/vadgo+isNyhsPq9mN7gwvBAKiAIFrp H2EXYYbfOSpBvUmhYMgErLgLk3/CbS0pCWLKoA1xTMayosdZOjagU3auZXY=","start_date_in_millis":-1}]
---

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## current license version
- do:
xpack.license.post:
  acknowledge: true
  body: |
  "licenses": [{"uid":"894371dc-9t49-4997-93cb-80e2e37fa6a8","type":"trial","issue_date_in_millis":1411948800000,"max_nodes":1,"issued_to":"issuedTo","issuer":"issuer","signature":"AAAAAgAAAA0FWh0T9njItjQ2qammmAAABmC9ZN0n/jZDBGYnVyRXpcOW5Sbbfj3jZDAxOWpStV0MVZzVuZrXk1PMskaaxZxW5IMhlITHNOIN12MXYvRFk4d3JTZEax3R3RRz0pzU3lobWJKZnQvSEFva00ppTHBkWkprZWZSQ91NmRNQk1SlpL0nlDalZCS095MXRGN111ZP0yeVVTnFrE2dzhJZmZrdFQrN3JQeGwxboU0MXZ0dDJSERzT2LH0HzSDBYWnpoZephZHBEJzUrTVBxRENNSSx5WtWJlZlaODdVmEzUJnWktxNWGM5UHqV2plaUo4QjOUm4MXNu0LoSEhQaVB2azhmUk9QVzFeToFMo1IQ0RjXSG53MWk2K055c28z5mRnVkf1J5SJkFLyVXXUMyVHNZD2R3o2VE1qhbVNSQ2tOHN5bUErZINWKZ5vmZlWEtuSU9wTTJENDVvTINCYlacUyYk2FwRW9xa0k6ldMbmMs5GQG3CFWQfOtZwZUcX6mQtk2RUZwMFJnZz1vL2d2BRWUzhU5pEdENGWF8reXNKNe9QPAABAQZbHvz0A0 trrxxU1Z1bTsKTna9C5KVQ6p80yg1pnsBpZXC18kXISrgofn1bXq61Jlwf5qmmYNiH3hRt9OeyCaBqaLk8NXZQ6TrkQpSEnBWnAYUKZCeXZSnuBoOkB4mzC7r8aMakzrTiETBbog+c57SaU937Gkdd+1jXQrxP+jOEU7gnXWZvE6loeRvCt1fYn09kOCFxkTkbrPTJsC6g2R3uVTHyee74XQ99RAvHx737T4U0EdQZX/P1ibS Q1WKbBRD5Q1POYVjTayoltTrNLXmxFctEakkATJZLhpeBH7ST7kZWrTS6J1dCREJc7a8Vsj78HXoOly"}]
xpack.license.get: { }

# a license object has 11 attributes
- length: { license: 11 }

# bwc for licenses format
- do:
xpack.license.post:
  acknowledge: true
  body: |
  ["licenses":[{"uid":"893361dc-9749-4997-93cb-802ed37fa4c8","type":"gold","issue_date_in_millis":1411948800000,"expiry_date_in_millis":1914273999999,"max_nodes":1,"issued_to":null,"issuer":null,"signature":"AAAAAAAA23T3vqdBbB3eKgxpAABBmC9ZN0hjZDBGYnVyRXpCOW5B3fjZDAxOWpSbTvOMVZwUzRvI1PSmxakxZd51MhHTHNoN1N2MXMvRFk4d3JTZeX3R3RRZ0pzU3lo9WJKZnQvSEFva0pTHbKwpzWZSQ9iNnmQKNkw1SlplN0lDaZC0595MXRG0nIlZlPycVVTnFrcTE2d3hJZmZrdFqRn3JQeGwbx0U0MXZ0dDJHSEiriZTVLOHNzSDByWnpozEphZHBEZEJuTVbXRENNSXNswWwJjZilb0DzdVmeEuUJNlWktWNGM5TUqV2palaO4QJOUUm4MXNuU0lSOEhQaVBazhUm9Q9VhFeTOfM1Q0RnXSG5SMWk2K055c28SmRnVkF1b2JSQKFLV2UXUmVHNDZ2R3o2V E1qbnVQ5S2lxOHNb5UeZINJWkZSVmZIWEtaw9wTTJENDVvT1NCYklaUCYYk2FwRW9xa0tdldMmbnMsZGtQc3FWO7tgZ3UCxMvQkt2RUzwMFJnZzlvL2dbDRLWuRh6UG5pdENGWFTRexXNNKnkE9PQAABQ7PGFygevLm9z2T80LcLHJhy1t/vu2szCQKDXXhrw5y4wz4rDWuAh20K+PEnQ7aEpW5er5y5KLA6OEZJdaP7r+mjOPuLt0+i5j4DMn7ybMzOPHXWWbcL6LTE3+p0GpRypomwskZSROegTciiR2R6z+mdnGrhOY80y08KVVwhtUD/HW41MK7ePo6t73Nz4y9Dg9f9Af0t4ggEPBPtDDBVQ25AjaY8s0Mse5RDRawy1KamYWrara8PIGX+2YjhtUeQhmICd1xc9w3E77knPps5bJ3OxQRF3fXhjcnXNHEIsblqLrMCal3pLs7tl+KPYMa2ZYL/am4P"]]
  - match: { license_status: "valid" }

- do:
xpack.license.get: {}
- length: { license: 11 }

# license version: 1.x
- do:
xpack.license.post:
  acknowledge: true
  body: |
  ["licenses":[{"uid":"893361dc-9749-4997-93cb-802ed37fa4c8","type":"subscription","subscription_type":"gold","issue_date_in_millis":1411948800000,"expiry_date_in_millis":1914273999999,"max_nodes":1,"issued_to":null,"issuer":null,"signature":"AAAAAAAA23T3vqdBbB3eKgxpAABBmC9ZN0hjZDBGYnVyRXpCOW5B3fjZDAxOWpSbTvOMVZwUzRvI1PSmxakxZd51MhHTHNoN1N2MXMvRFk4d3JTZeX3R3RRZ0pzU3lo9WJKZnQvSEFva0pTHbKwpzWZSQ9iNnmQKNkw1SlplN0lDaZC0595MXRG0nIlZlPycVVTnFrcTE2d3hJZmZrdFqRn3JQeGwbx0U0MXZ0dDJHSEiriZTVLOHNzSDByWnpozEphZHBEZEJuTVbXRENNSXNswWwJjZilb0DzdVmeEuUJNlWktWNGM5TUqV2palaO4QJOUUm4MXNuU0lSOEhQaVBazhUm9Q9VhFeTOfM1Q0RnXSG5SMWk2K055c28SmRnVkF1b2JSQKFLV2UXUmVHNDZ2R3o2V E1qbnVQ5S2lxOHNb5UeZINJWkZSVmZIWEtaw9wTTJENDVvT1NCYklaUCYYk2FwRW9xa0tdldMmbnMsZGtQc3FWO7tgZ3UCxMvQkt2RUzwMFJnZzlvL2dbDRLWuRh6UG5pdENGWFTRexXNNKnkE9PQAABQ7PGFygevLm9z2T80LcLHJhy1t/vu2szCQKDXXhrw5y4wz4rDWuAh20K+PEnQ7aEpW5er5y5KLA6OEZJdaP7r+mjOPuLt0+i5j4DMn7ybMzOPHXWWbcL6LTE3+p0GpRypomwskZSROegTciiR2R6z+mdnGrhOY80y08KVVwhtUD/HW41MK7ePo6t73Nz4y9Dg9f9Af0t4ggEPBPtDDBVQ25AjaY8s0Mse5RDRawy1KamYWrara8PIGX+2YjhtUeQhmICd1xc9w3E77knPps5bJ3OxQRF3fXhjcnXNHEIsblqLrMCal3pLs7tl+KPYMa2ZYL/am4P"]]
- match: { license_status: "valid" }

- do:
  xpack.license.get: {}  

- length: { license: 11 }
- match: { license.uid: "893361dc-9749-4997-93cb-802e3d0f7aa" }

"Should throw 404 after license deletion":  
- do:
  xpack.license.delete: {}
  match: { acknowledged: true }
  do:
  xpack.license.get: {}  
  catch: missing

"Should install a feature type license":

```bash
# VERSION_NO_FEATURE_TYPE license version  
- do:  
  xpack.license.post:  
    acknowledge: true  
    body:  
- match: { license_status: "valid" }
- do:  
  xpack.license.get: {}  
  length: { license: 11 }
```

---
"Cannot start basic":

- do:
  catch: bad_request
  xpack.license.post:
    acknowledge: true
    body: |
    { "license": { "uid": "893361dc-9749-4997-93cb-802e3d7fa4a8", "type": "basic", "issue_date_in_millis": 1411948800000, "expiry_date_in_millis": 1914278399999, "max_nodes": 1, "issueto": "issueto", "issuer": "issuer", "signature": "AAAAAgAAAA0lKPZ0a7a7QuUltho/AAAAAhC9KZn0hjZDBGYnVYRxpcOW5Sb3fJzDAxOWp5bTvOMVZwUzRvK1s5mkxaxxZdW5lMhlITHNoN1N2MXMvRFk4d3JTZeX3R3RRZ0pzU3loWJJKZnqvSEFvao0ppTHBkWkpZWzSZQi9hNmQRNkw1SlpLNOlIdAilCS095MXRGN1lHZIpYcVVTThFrcTE2dhHZmZrdFQrN3JQeGwxboU0MXZ0xDJHSErIZTVLOHNzSDByWnpoZEphZHEZjUrTVBxRENNSXNsWUIjZIIaODdzVMezUjNiWktNWGM5TUUhqv2pUo4Q10Uon4MXNuLOpSOEhQaVB2azhmUk9QVzhFeTFoM1IQ0RnJXSG53MWk2K055c28zSmRvKf1b2JSQkFLV2VXXmVHNDZ2R3o2VE1qbbVNOQ2iOXHN5bUErZINfWkZSVmZIWEtaSU9wTTJfENDvT1NCYkIacUYyK2FwRW9xa0t6diddMbmMzSGtQc3FtWOFgzZf1UcXMvQk2RZUWzFJznZlVlZd2bDRWUzh6UG5pENGWFRreXNKmK9E9PQAAAQAALuQ44S3lGE6zolcXVJ6Z4CIYORDrYQ+wLCEeyOXdjTsAOj+k+VNOg6wauC7Uswi0esHu4tb5lgpKvy7RRCbsh5j/z2ubu2qM1qopp9BQyD7VQjVfqmG6seUMJwJ1a5Avvm9r41YPSPcrii3bKK2e1l6jK6N8ibCvnTyY/XkYGCJhBWTSejDPbq6ErbyodZ37x1s5LbPwcN4kmyweHJdnYnbZzZ07A3NmubXZjW7Tdf8/YwQyEo0PqMc17IPY3hKpAeHf8aaHbjkKYbqZuER3EWIJ7ZzLVb1dNdNg8aXRn7YrkQycWgptYqPfV+d7yEJ4j5muAEoer" }}

- match: { error.root_cause.0.reason: 'Installing basic licenses is no longer allowed. Use the POST /_xpack/license/start_basic API to install a basic license that does not expire.' }

"Should fail gracefully when body content is not provided":

- do:
  catch: bad_request
  xpack.license.post:
    acknowledge: true
    body: |
    - match: { error.root_cause.0.reason: 'The license must be provided in the request body' }

"Current license is trial means not eligle to start trial":

- do:
  xpack.license.get_trial_status: {}

- do:
  xpack.license.post_start_basic:
    acknowledge: true

- match: { error.root_cause.0.reason: 'The license must be provided in the request body' }

- do:
  xpack.license.post_start_basic:
    acknowledge: true

- match: { basic_was_started: true }
- do:
  xpack.license.get_trial_status: {}

- match: { eligible_to_start_trial: false }

- do:
  catch: forbidden
  xpack.license.post_start_trial:
    acknowledge: true

- match: { trial_was_started: false }
- match: { error_message: "Operation failed: Trial was already activated." }

---
"Trial license cannot be basic":
- do:
  catch: bad_request
  xpack.license.post_start_trial:
    type: "basic"
    acknowledge: true

---
"Can start basic license if do not already have basic":
- do:
  xpack.license.get_basic_status: {}

- match: { eligible_to_start_basic: true }

- do:
  xpack.license.post_start_basic:
    acknowledge: true

- match: { basic_was_started: true }
- match: { acknowledged: true }

- do:
  xpack.license.get_basic_status: {}

- match: { eligible_to_start_basic: false }

- do:
  catch: forbidden
  xpack.license.post_start_basic: {}

- match: { basic_was_started: false }
- match: { acknowledged: true }
- match: { error_message: "Operation failed: Current license is basic." }

---
"Must acknowledge to start basic":
- do:
xpac.license.post_start_basic: {}
@TestLogging("org.elasticsearch.xpack.ml.action:DEBUG")
public class MachineLearningLicensingTests extends BaseMlIntegTestCase {

    @Before
    public void resetLicensing() {
        enableLicensing();

        ensureStableCluster(1);
        ensureYellow();
    }

    public void testMachineLearningPutJobActionRestricted() throws Exception {
        String jobId = "testmachinelearningputjobactionrestricted";
        // Pick a license that does not allow machine learning
        License.OperationMode mode = randomInvalidLicenseType();
        enableLicensing(mode);
        assertMLAllowed(false);
        // test that license restricted apis do not work
        Settings settings = internalCluster().transportClient().settings();
        try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
            PlainActionFuture<PutJobAction.Response> listener = PlainActionFuture.newFuture();
            new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), listener);
            listener.actionGet();
            fail("put job action should not be enabled!");
        } catch (ElasticsearchSecurityException e) {
            assertThat(e.status(), is(RestStatus.FORBIDDEN));
            assertThat(e.getMessage(), containsString("non-compliant");
            assertThat(e.getMetadata(LicenseUtils.EXPIRED_FEATURE_METADATA),
                        hasItem(XPackField.MACHINE_LEARNING));
        }

        // Pick a license that does allow machine learning
        mode = randomValidLicenseType();
        enableLicensing(mode);
        assertMLAllowed(true);
        // test that license restricted apis do now work
        try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
            PlainActionFuture<PutJobAction.Response> listener = PlainActionFuture.newFuture();
            new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), listener);
            PutJobAction.Response response = listener.actionGet();
            assertNotNull(response);
        }
    }

    // Pick a license that does not allow machine learning
    License.OperationMode mode = randomInvalidLicenseType();
    enableLicensing(mode);
    assertMLAllowed(false);
    // test that license restricted apis do not work
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        PlainActionFuture<PutJobAction.Response> listener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), listener);
        listener.actionGet();
        fail("put job action should not be enabled!");
    } catch (ElasticsearchSecurityException e) {
        assertThat(e.status(), is(RestStatus.FORBIDDEN));
        assertThat(e.getMessage(), containsString("non-compliant");
        assertThat(e.getMetadata(LicenseUtils.EXPIRED_FEATURE_METADATA),
                    hasItem(XPackField.MACHINE_LEARNING));
    }

    // Pick a license that does allow machine learning
    mode = randomValidLicenseType();
    enableLicensing(mode);
    assertMLAllowed(true);
    // test that license restricted apis do now work
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        PlainActionFuture<PutJobAction.Response> listener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), listener);
        PutJobAction.Response response = listener.actionGet();
        assertNotNull(response);
    }
}

---

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public void testMachineLearningOpenJobActionRestricted() throws Exception {
    String jobId = "testmachinelearningopenjobactionrestricted";
    assertMLAllowed(true);
    // test that license restricted apis do now work
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
        PlainActionFuture<PutJobAction.Response> putJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), putJobListener);
        PutJobAction.Response response = putJobListener.actionGet();
        assertNotNull(response);
    }

    // Pick a license that does not allow machine learning
    License.OperationMode mode = randomInvalidLicenseType();
    enableLicensing(mode);
    assertMLAllowed(false);
    // test that license restricted apis do not work
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
        PlainActionFuture<OpenJobAction.Response> listener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), listener);
        listener.actionGet();
        fail("open job action should not be enabled!");
    } catch (ElasticsearchSecurityException e) {
        assertThat(e.status(), is(RestStatus.FORBIDDEN));
        assertThat(e.getMessage(), containsString("non-compliant"));
        assertThat(e.getMetadata(LicenseUtils.EXPIRED_FEATURE_METADATA), hasItem(XPackField.MACHINE_LEARNING));
    }

    // Pick a license that does allow machine learning
    mode = randomValidLicenseType();
    enableLicensing(mode);
    assertMLAllowed(true);

    // now that the license is invalid, the job should get closed:
    assertBusy(() -> {
        JobState jobState = getJobStats(jobId).getState();
        assertEquals(JobState.CLOSED, jobState);
    });

    // test that license restricted apis do now work
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
    }
}
public void testMachineLearningPutDatafeedActionRestricted() throws Exception {
    String jobId = "testmachinelearningputdatafeedactionrestricted";
    String datafeedId = jobId + "-datafeed";
    assertMLAllowed(true);
    // test that license restricted apis do now work
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        PlainActionFuture<PutJobAction.Response> putJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), putJobListener);
        PutJobAction.Response putJobResponse = putJobListener.actionGet();
        assertNotNull(putJobResponse);
    }

    // Pick a license that does not allow machine learning
    License.OperationMode mode = randomInvalidLicenseType();
    enableLicensing(mode);
    assertMLAllowed(false);
    // test that license restricted apis do not work
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        PlainActionFuture<PutDatafeedAction.Response> listener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putDatafeed(
            new PutDatafeedAction.Request(createDatafeed(datafeedId, jobId, Collections.singletonList(jobId))),
            listener);
        listener.actionGet();
        fail("put datafeed action should not be enabled!");
    } catch (ElasticsearchSecurityException e) {
        assertThat(e.status(), is(RestStatus.FORBIDDEN));
        assertThat(e.getMessage(), containsString("non-compliant"));
        assertThat(e.getMetadata(LicenseUtils.EXPIRED_FEATURE_METADATA),
                    hasItem(XPackField.MACHINE_LEARNING));
    }

    // Pick a license that does allow machine learning
    mode = randomValidLicenseType();
    enableLicensing(mode);
    assertMLAllowed(true);
}
// test that license restricted apis do now work
try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
    PlainActionFuture<PutDatafeedAction.Response> listener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).putDatafeed(new PutDatafeedAction.Request(createDatafeed(datafeedId, jobId, Collections.singletonList(jobId))), listener);
    PutDatafeedAction.Response response = listener.actionGet();
    assertNotNull(response);
}

public void testAutoCloseJobWithDatafeed() throws Exception {
    String jobId = "testautoclosejobwithdatafeed";
    String datafeedId = jobId + "-datafeed";
    assertMLAllowed(true);
    String datafeedIndex = jobId + "-data";
    prepareCreate(datafeedIndex).addMapping("type", "{\"type\":{\"properties\":{\"time\":{\"type\":\"date\" }}}}", XContentType.JSON).get();
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress());
        // put job
        PlainActionFuture<PutJobAction.Response> putJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), putJobListener);
        PutJobAction.Response putJobResponse = putJobListener.actionGet();
        assertNotNull(putJobResponse);
        // put datafeed
        PlainActionFuture<PutDatafeedAction.Response> putDatafeedListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putDatafeed(new PutDatafeedAction.Request(createDatafeed(datafeedId, jobId, Collections.singletonList(datafeedIndex))), putDatafeedListener);
        PutDatafeedAction.Response putDatafeedResponse = putDatafeedListener.actionGet();
        assertNotNull(putDatafeedResponse);
        // open job
        PlainActionFuture<OpenJobAction.Response> openJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), openJobListener);
        OpenJobAction.Response openJobResponse = openJobListener.actionGet();
        assertNotNull(openJobResponse);
        // start datafeed
        PlainActionFuture<StartDatafeedAction.Response> listener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).startDatafeed(new StartDatafeedAction.Request(datafeedId, 0L), listener);
        listener.actionGet();
    }
}
if (randomBoolean()) {
    enableLicensing(randomInvalidLicenseType());
} else {
    disableLicensing();
}
assertMLAllowed(false);

// now that the license is invalid, the job should be closed and datafeed stopped:
assertBusy(() -> {
    JobState jobState = getJobStats(jobId).getState();
    assertEquals(JobState.CLOSED, jobState);

    DatafeedState datafeedState = getDatafeedStats(datafeedId).getDatafeedState();
    assertEquals(DatafeedState.STOPPED, datafeedState);

    ClusterState state = client().admin().cluster().prepareState().get().getState();
    PersistentTasksCustomMetaData tasks = state.metaData().custom(PersistentTasksCustomMetaData.TYPE);
    assertEquals(0, tasks.taskMap().size());
});

enableLicensing(randomValidLicenseType());
assertMLAllowed(true);

try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
    // open job
    PlainActionFuture<OpenJobAction.Response> openJobListener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), openJobListener);
    OpenJobAction.Response openJobResponse = openJobListener.actionGet();
    assertNotNull(openJobResponse);
    // start datafeed
    PlainActionFuture<StartDatafeedAction.Response> listener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).startDatafeed(new StartDatafeedAction.Request(datafeedId, 0L),
    listener);
    listener.actionGet();
}

assertBusy(() -> {
    JobState jobState = getJobStats(jobId).getState();
    assertEquals(JobState.OPENED, jobState);

    DatafeedState datafeedState = getDatafeedStats(datafeedId).getDatafeedState();
    assertEquals(DatafeedState.STARTED, datafeedState);

    ClusterState state = client().admin().cluster().prepareState().get().getState();
    PersistentTasksCustomMetaData tasks = state.metaData().custom(PersistentTasksCustomMetaData.TYPE);
    assertEquals(2, tasks.taskMap().size());
```java
if (randomBoolean()) {
    enableLicensing(randomInvalidLicenseType());
} else {
    disableLicensing();
}
assertMLAllowed(false);

// now that the license is invalid, the job should be closed and datafeed stopped:
assertBusy(() -> {
    JobState jobState = getJobStats(jobId).getState();
    assertEquals(JobState.CLOSED, jobState);
    DatafeedState datafeedState = getDatafeedStats(datafeedId).getDatafeedState();
    assertEquals(DatafeedState.STOPPED, datafeedState);
    ClusterState state = client().admin().cluster().prepareState().get().getState();
    PersistentTasksCustomMetaData tasks = state.metaData().custom(PersistentTasksCustomMetaData.TYPE);
    assertEquals(0, tasks.taskMap().size());
});

public void testMachineLearningStartDatafeedActionRestricted() throws Exception {
    String jobId = "testmachinelearningstartdatafeedactionrestricted";
    String datafeedId = jobId + "-datafeed";
    assertMLAllowed(true);
    String datafeedIndex = jobId + "-data";
    prepareCreate(datafeedIndex).addMapping("type", "{type":{"properties":{"time":{"type":"date"}}}}", XContentType.JSON).get();
    // test that license restricted apis do now work
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress());
        PlainActionFuture<PutJobAction.Response> putJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), putJobListener);
        PutJobAction.Response putJobResponse = putJobListener.actionGet();
        assertNotNull(putJobResponse);
        PlainActionFuture<PutDatafeedAction.Response> putDatafeedListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putDatafeed(new PutDatafeedAction.Request(createDatafeed(datafeedId, jobId, Collections.singletonList(datafeedIndex))), putDatafeedListener);
        PutDatafeedAction.Response putDatafeedResponse = putDatafeedListener.actionGet();
        assertNotNull(putDatafeedResponse);
        PlainActionFuture<OpenJobAction.Response> openJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), openJobListener);
        OpenJobAction.Response openJobResponse = openJobListener.actionGet();
```
assertNotNull(openJobResponse);
}

// Pick a license that does not allow machine learning
License.OperationMode mode = randomInvalidLicenseType();
enableLicensing(mode);
assertMLAllowed(false);

// now that the license is invalid, the job should get closed:
assertBusy(() -> {
    JobState jobState = getJobStats(jobId).getState();
    assertEquals(JobState.CLOSED, jobState);
    ClusterState state = client().admin().cluster().prepareState().get().getState();
    PersistentTasksCustomMetaData tasks = state.metaData().custom(PersistentTasksCustomMetaData.TYPE);
    assertEquals(0, tasks.taskMap().size());
});

// test that license restricted apis do not work
try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
    PlainActionFuture<StartDatafeedAction.Response> listener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).startDatafeed(new StartDatafeedAction.Request(datafeedId, 0L),
        listener);
    listener.actionGet();
    fail("start datafeed action should not be enabled!");
} catch (ElasticsearchSecurityException e) {
    assertThat(e.status(), is(RestStatus.FORBIDDEN));
    assertThat(e.getMessage(), containsString("non-compliant"));
    assertThat(e.getMetadata(LicenseUtils.EXPIRED_FEATURE_METADATA), hasItem(XPackField.MACHINE_LEARNING));
}

// Pick a license that does allow machine learning
mode = randomValidLicenseType();
enableLicensing(mode);
assertMLAllowed(true);
// test that license restricted apis do now work
try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
    // re-open job now that the license is valid again
    PlainActionFuture<OpenJobAction.Response> openJobListener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), openJobListener);
    OpenJobAction.Response openJobResponse = openJobListener.actionGet();
    assertNotNull(openJobResponse);
    PlainActionFuture<StartDatafeedAction.Response> listener = PlainActionFuture.newFuture();
new MachineLearningClient(client).startDatafeed(new StartDatafeedAction.Request(datafeedId, 0L), listener);
StartDatafeedAction.Response response = listener.actionGet();
assertNotNull(response);
}
}

public void testMachineLearningStopDatafeedActionNotRestricted() throws Exception {
    String jobId = "testmachinelearningstopdatafeedactionnotrestricted";
    String datafeedId = jobId + "-datafeed";
    assertMLAllowed(true);
    String datafeedIndex = jobId + "-data";
    prepareCreate(datafeedIndex).addMapping("type", "{\"properties\":{\"time\":{\"type\":\"date\"}}}", XContentType.JSON).get();
    // test that license restricted apis do now work
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
        PlainActionFuture<PutJobAction.Response> putJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), putJobListener);
        PutJobAction.Response putJobResponse = putJobListener.actionGet();
        assertNotNull(putJobResponse);
        PlainActionFuture<PutDatafeedAction.Response> putDatafeedListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putDatafeed(
            new PutDatafeedAction.Request(createDatafeed(datafeedId, jobId, Collections.singletonList(datafeedIndex))), putDatafeedListener);
        PutDatafeedAction.Response putDatafeedResponse = putDatafeedListener.actionGet();
        assertNotNull(putDatafeedResponse);
        PlainActionFuture<OpenJobAction.Response> openJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), openJobListener);
        OpenJobAction.Response openJobResponse = openJobListener.actionGet();
        assertNotNull(openJobResponse);
        PlainActionFuture<StartDatafeedAction.Response> startDatafeedListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).startDatafeed(
            new StartDatafeedAction.Request(datafeedId, 0L), startDatafeedListener);
        StartDatafeedAction.Response startDatafeedResponse = startDatafeedListener.actionGet();
        assertNotNull(startDatafeedResponse);
    }

    boolean invalidLicense = randomBoolean();
    if (invalidLicense) {
        enableLicensing(randomInvalidLicenseType());
    } else {
        enableLicensing(randomValidLicenseType());
    }

    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {

public void testMachineLearningCloseJobActionNotRestricted() throws Exception {
    String jobId = "testmachinelearningclosejobactionnotrestricted";
    assertMLAllowed(true);
    // test that license restricted apis do now work
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress);
        PlainActionFuture<PutJobAction.Response> putJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), putJobListener);
        PutJobAction.Response putJobResponse = putJobListener.actionGet();
        assertNotNull(putJobResponse);
        PlainActionFuture<OpenJobAction.Response> openJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), openJobListener);
        OpenJobAction.Response openJobResponse = openJobListener.actionGet();
        assertNotNull(openJobResponse);
    }
    boolean invalidLicense = randomBoolean();
    if (invalidLicense) {
        ...
    }
}
enableLicensing(randomInvalidLicenseType());
} else {
    enableLicensing(randomValidLicenseType());
}

try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
    PlainActionFuture<CloseJobAction.Response> listener = PlainActionFuture.newFuture();
    CloseJobAction.Request request = new CloseJobAction.Request(jobId);
    request.setCloseTimeout(TimeValue.timeValueSeconds(20));
    if (invalidLicense) {
        // the close due to invalid license happens async, so check if the job turns into closed state:
        assertBusy(() -> {
            GetJobsStatsAction.Response response =
                new MachineLearningClient(client).getJobsStats(new
                GetJobsStatsAction.Request(jobId)).actionGet();
            assertEquals(JobState.CLOSED, response.getResponse().results().get(0).getState());
        });
    } else {
        new MachineLearningClient(client).closeJob(request, listener);
        listener.actionGet();
    }
}

public void testMachineLearningDeleteJobActionNotRestricted() throws Exception {
    String jobId = "testmachinelearningclosejobactionnotrestricted";
    assertMLAllowed(true);
    // test that license restricted apis do now work
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
        PlainActionFuture<PutJobAction.Response> putJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), putJobListener);
        PutJobAction.Response putJobResponse = putJobListener.actionGet();
        assertNotNull(putJobResponse);
    }
    // Pick a random license
    License.OperationMode mode = randomLicenseType();
    enableLicensing(mode);

    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
        PlainActionFuture<DeleteJobAction.Response> listener = PlainActionFuture.newFuture();
    }
new MachineLearningClient(client).deleteJob(new DeleteJobAction.Request(jobId), listener);
listener.actionGet();
}
}

public void testMachineLearningDeleteDatafeedActionNotRestricted() throws Exception {
    String jobId = "testmachinelearningdeletedatafeedactionnotrestricted";
    String datafeedId = jobId + "-datafeed";
    assertMLAllowed(true);
    // test that license restricted apis do now work
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
        PlainActionFuture<PutJobAction.Response> putJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), putJobListener);
        PutJobAction.Response putJobResponse = putJobListener.actionGet();
        assertNotNull(putJobResponse);
        PlainActionFuture<PutDatafeedAction.Response> putDatafeedListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putDatafeed(
            new PutDatafeedAction.Request(createDatafeed(datafeedId, jobId, Collections.singletonList(jobId))), putDatafeedListener);
        PutDatafeedAction.Response putDatafeedResponse = putDatafeedListener.actionGet();
        assertNotNull(putDatafeedResponse);
    }
    // Pick a random license
    License.OperationMode mode = randomLicenseType();
    enableLicensing(mode);
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
        PlainActionFuture<DeleteDatafeedAction.Response> listener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).deleteDatafeed(new DeleteDatafeedAction.Request(datafeedId), listener);
        listener.actionGet();
    }
}

private static OperationMode randomInvalidLicenseType() {
    return randomFrom(License.OperationMode.GOLD, License.OperationMode.STANDARD, License.OperationMode.BASIC);
}

private static OperationMode randomValidLicenseType() {
    return randomFrom(License.OperationMode.TRIAL, License.OperationMode.PLATINUM);
}
private static OperationMode randomLicenseType() {
    return randomFrom(License.OperationMode.values());
}

private static void assertMLAllowed(boolean expected) {
    for (XPackLicenseState licenseState : internalCluster().getInstances(XPackLicenseState.class)) {
        assertEquals(licenseState.isMachineLearningAllowed(), expected);
    }
}

public static void disableLicensing() {
    disableLicensing(randomValidLicenseType());
}

public static void disableLicensing(License.OperationMode operationMode) {
    for (XPackLicenseState licenseState : internalCluster().getInstances(XPackLicenseState.class)) {
        licenseState.update(operationMode, false, null);
    }
}

public static void enableLicensing() {
    enableLicensing(randomValidLicenseType());
}

public static void enableLicensing(License.OperationMode operationMode) {
    for (XPackLicenseState licenseState : internalCluster().getInstances(XPackLicenseState.class)) {
        licenseState.update(operationMode, true, null);
    }
}

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*/

{  
"metadata": {  
"name": "X-Pack Monitoring: License Expiration",
"xpack": {  
"link": "license",
"expires_days": [ 60, 30, 14, 7 ]
}}}
"severity": 0,
"alert_index": ".monitoring-alerts-6",
"cluster_uuid": "{monitoring.watch.cluster_uuid}",
"type": "monitoring",
"version_created": 6040099,
"watch": "{monitoring.watch.id}"
}
],
"trigger": {
  "schedule": {
    "interval": "1m"
  }
],
"input": {
  "chain": {
    "inputs": [
      {
        "check": {
          "search": {
            "request": {
              "indices": [
                ".monitoring-es-*"
              ],
              "body": {
                "size": 1,
                "sort": [
                  {
                    "timestamp": {
                      "order": "desc"
                    }
                  }
              ],
              ".source": {
                "license.***"
              },
              "query": {
                "bool": {
                  "filter": [
                    {
                      "term": {
                        "cluster_uuid": "{ctx.metadata.xpack.cluster_uuid}"
                      }
                    }
                  ]
                }
              }
          }
        }
      }
    ]
  }
}
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2500
(ctx.vars.not_resolved) { ctx.payload = ctx.payload.alert.hits[0]._source; ctx.payload.metadata = ctx.metadata.xpack; if (ctx.vars.fails_check == false) { ctx.payload.resolved_timestamp = ctx.execution_time; } else { ctx.payload = { 'timestamp': ctx.execution_time, 'prefix': 'This cluster\'s license is going to expire in', 'message': alertMessage, 'metadata': ctx.metadata.xpack }; } if (ctx.vars.fails_check) { ctx.payload.metadata.time = ctx.vars.expiry.toString(); } ctx.payload.update_timestamp = ctx.execution_time; return ctx.payload; }
}

"actions": {
"add_to_alerts_index": {
"index": {
"index": ".monitoring-alerts-6",
"doc_type": "doc",
"doc_id": "{monitoring.watch.unique_id}"
}
},
"send_email_to_admin": {
"condition": {
"script": "return ctx.vars.email_recipient !== null && (ctx.vars.is_new || ctx.vars.is_resolved)"
},
"email": {
"to": "X-Pack Admin <{ctx.vars.email_recipient}>",
"from": "X-Pack Admin <{ctx.vars.email_recipient}>",
"subject": "\NEW{ctx.metadata.name}\RESOLVED{ctx.metadata.name}",
"body": {
"text": "\(\text{This cluster alert has been resolved: }\) This cluster's license \(\text{is going to expire on}\) was going to expire\(\text{was going to expire}\).\text{This cluster\'s license is going to expire on}\) was going to expire\".
}
}
}

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 */
package org.elasticsearch.license;

import org.apache.http.message.BasicHeader;
import org.elasticsearch.ElasticsearchSecurityException;
import org.elasticsearch.action.DocWriteResponse;
import org.elasticsearch.action.admin.cluster.health.ClusterHealthResponse;
import org.elasticsearch.action.admin.cluster.node.stats.NodesStatsResponse;
import org.elasticsearch.action.admin.cluster.stats.ClusterStatsIndices;
import org.elasticsearch.action.admin.cluster.stats.ClusterStatsResponse;
import org.elasticsearch.action.admin.indices.stats.IndicesStatsResponse;
import org.elasticsearch.action.index.IndexResponse;
import org.elasticsearch.client.Client;
import org.elasticsearch.client.Response;
import org.elasticsearch.client.ResponseException;
import org.elasticsearch.client.transport.NoNodeAvailableException;
import org.elasticsearch.client.transport.TransportClient;
import org.elasticsearch.cluster.routing.ShardRoutingState;
import org.elasticsearch.common.network.NetworkModule;
import org.elasticsearch.common.settings.SecureString;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.util.concurrent.ThreadContext;
import org.elasticsearch.discovery.DiscoveryModule;
import org.elasticsearch.node.MockNode;
import org.elasticsearch.node.Node;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.rest.RestStatus;
import org.elasticsearch.test.SecurityIntegTestCase;
import org.elasticsearch.test.SecuritySettingsSource;
import org.elasticsearch.test.SecuritySettingsSourceField;
import org.elasticsearch.test.discovery.TestZenDiscovery;
import org.elasticsearch.test.junit.annotations.TestLogging;
import org.elasticsearch.transport.Netty4Plugin;
import org.elasticsearch.transport.Transport;
import org.elasticsearch.xpack.core.TestXPackTransportClient;
import org.elasticsearch.xpack.core.XPackField;
import org.elasticsearch.xpack.core.security.SecurityField;
import org.elasticsearch.xpack.core.security.action.user.GetUsersResponse;
import org.elasticsearch.xpack.core.security.xpack.security.authc.support.UsernamePasswordToken;
import org.elasticsearch.xpack.core.security.xpack.security.client.SecurityClient;
import org.elasticsearch.xpack.core.security.xpack.security.LocalStateSecurity;
import org.junit.After;
import org.junit.Before;
import java.nio.file.Files;
import java.nio.file.Path;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collection;
import static org.elasticsearch.common.xcontent.XContentFactory.jsonBuilder;
import static org.elasticsearch.test.hamcrest.ElasticsearchAssertions.assertNoFailures;
import static org.hamcrest.Matchers.containsString;
import static org.hamcrest.Matchers.greaterThanOrEqualTo;
import static org.hamcrest.Matchers.hasItem;
import static org.hamcrest.Matchers.is;
import static org.hamcrest.Matchers.notNullValue;

@TestLogging("org.elasticsearch.cluster.service:TRACE,org.elasticsearch.discovery.zen:TRACE,org.elasticsearch.
action.search:TRACE," +
"org.elasticsearch.search:TRACE")
public class LicensingTests extends SecurityIntegTestCase {
    public static final String ROLES =
           SecuritySettingsSource.TEST_ROLE + ":
            "cluster: [ all ]"n" +
            " indices:"n" +
            " - names: ":*"n" +
            " privileges: [manage]"n" +
            " - names: /.*"n" +
            " privileges: [write]"n" +
            " - names: 'test'"n" +
            " privileges: [read]"n" +
            " - names: 'test1'"n" +
            " privileges: [read]"n" +
            ""n" +
            "role_a"n" +
            " indices:"n" +
            " - names: 'a'"n" +
            " privileges: [all]"n" +
            ""n" +
            "role_b"n" +
            " indices:"n" +
public static final String USERS_ROLES =
    SecuritySettingsSource.CONFIG_STANDARD_USER_ROLES +
    "role_a:user_a,user_b\n" +
    "role_b:user_b\n";

@Override
protected String configRoles() {
    return ROLES;
}

@Override
protected String configUsers() {
    return SecuritySettingsSource.CONFIG_STANDARD_USER +
    "user_a:{plain}passwd" +
    "user_b:{plain}passwd";
}

@Override
protected String configUsersRoles() {
    return USERS_ROLES;
}

@Override
public Settings nodeSettings(int nodeOrdinal) {
    return Settings.builder().put(super.nodeSettings(nodeOrdinal))
        .put(NetworkModule.HTTP_ENABLED.getKey(), true)
        .put(TestZenDiscovery.USE_MOCK_PINGS.getKey(), false)
        .build();
}

@Override
protected Collection<Class<? extends Plugin>> nodePlugins() {
    ArrayList<Class<? extends Plugin>> plugins = new ArrayList<>(super.nodePlugins());
    plugins.add(Netty4Plugin.class); // for http
    return plugins;
}

@Override
protected int maxNumberOfNodes() {
    return super.maxNumberOfNodes() + 1;
}

@Before
public void resetLicensing() {
    enableLicensing();
}
@After
public void cleanupSecurityIndex() {
    deleteSecurityIndex();
}

public void testEnableDisableBehaviour() throws Exception {
    IndexResponse indexResponse = index("test", "type", jsonBuilder()
        .startObject()
        .field("name", "value")
        .endObject());
    assertEquals(DocWriteResponse.Result.CREATED, indexResponse.getResult());

    indexResponse = index("test1", "type", jsonBuilder()
        .startObject()
        .field("name", "value1")
        .endObject());
    assertEquals(DocWriteResponse.Result.CREATED, indexResponse.getResult());

    refresh();
    // wait for all replicas to be started (to make sure that there are no more cluster state updates when we disable
    // licensing)
    assertBusy(() -> assertTrue(client().admin().cluster().prepareState().get().getState().routingTable()
        .shardsWithState(ShardRoutingState.INITIALIZING).isEmpty()));

    Client client = internalCluster().transportClient();
    disableLicensing();
    assertElasticsearchSecurityException(() -> client.admin().indices().prepareStats().get());
    assertElasticsearchSecurityException(() -> client.admin().cluster().prepareClusterStats().get());
    assertElasticsearchSecurityException(() -> client.admin().cluster().prepareHealth().get());
    assertElasticsearchSecurityException(() -> client.admin().cluster().prepareNodesStats().get());
    enableLicensing(randomFrom(License.OperationMode.values()));

    IndicesStatsResponse indicesStatsResponse = client.admin().indices().prepareStats().get();
    assertNoFailures(indicesStatsResponse);

    ClusterStatsResponse clusterStatsNodeResponse = client.admin().cluster().prepareClusterStats().get();
    assertThat(clusterStatsNodeResponse, notNullValue());
    ClusterStatsIndices indices = clusterStatsNodeResponse.getIndicesStats();
    assertThat(indices, notNullValue());
    assertThat(indices.getIndexCount(), greaterThanOrEqualTo(2));

    ClusterHealthResponse clusterIndexHealth = client.admin().cluster().prepareHealth().get();
assertThat(clusterIndexHealth, notNullValue());

NodesStatsResponse nodeStats = client.admin().cluster().prepareNodesStats().get();
assertThat(nodeStats, notNullValue());
}

public void testRestAuthenticationByLicenseType() throws Exception {
    Response response = getRestClient().performRequest("GET", "/");
    // the default of the licensing tests is basic
    assertThat(response.getStatusLine().getStatusCode(), is(200));
    ResponseException e = expectThrows(ResponseException.class,
        () -> getRestClient().performRequest("GET", "/_xpack/security/_authenticate"));
    assertThat(e.getResponse().getStatusLine().getStatusCode(), is(403));

    // generate a new license with a mode that enables auth
    License.OperationMode mode = randomFrom(License.OperationMode.GOLD,
        License.OperationMode.TRIAL,
        License.OperationMode.PLATINUM, License.OperationMode.STANDARD);
    enableLicensing(mode);
    e = expectThrows(ResponseException.class, () -> getRestClient().performRequest("GET", "/"));
    assertThat(e.getResponse().getStatusLine().getStatusCode(), is(401));
    e = expectThrows(ResponseException.class,
        () -> getRestClient().performRequest("GET", "/_xpack/security/_authenticate"));
    assertThat(e.getResponse().getStatusLine().getStatusCode(), is(401));

    final String basicAuthValue =
        UsernamePasswordToken.basicAuthHeaderValue(SecuritySettingsSource.TEST_USER_NAME,
            new SecureString(SecuritySettingsSourceField.TEST_PASSWORD.toCharArray()));
    response = getRestClient().performRequest("GET", "/", new BasicHeader("Authorization", basicAuthValue));
    assertThat(response.getStatusLine().getStatusCode(), is(200));
    response = getRestClient().performRequest("GET", "/_xpack/security/_authenticate",
        new BasicHeader("Authorization", basicAuthValue));
    assertThat(response.getStatusLine().getStatusCode(), is(200));
}

public void testSecurityActionsByLicenseType() throws Exception {
    // security actions should not work!
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateSecurity.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress());
        new SecurityClient(client).prepareGetUsers().get();
        fail("security actions should not be enabled!");
    } catch (ElasticsearchSecurityException e) {
        assertThat(e.status(), is(RestStatus.FORBIDDEN));
        assertThat(e.getMessage(), containsString("non-compliant"));
    }
}
// enable a license that enables security
License.OperationMode mode = randomFrom(License.OperationMode.GOLD,
License.OperationMode.TRIAL,
License.OperationMode.PLATINUM, License.OperationMode.STANDARD);
enableLicensing(mode);

public void testTransportClientAuthenticationByLicenseType() throws Exception {
    Settings.Builder builder = Settings.builder()
        .put(internalCluster().transportClient().settings());
    // remove user info
    builder.remove(SecurityField.USER_SETTING.getKey());
    builder.remove(ThreadContext.PREFIX + "." + UsernamePasswordToken.BASIC_AUTH_HEADER);
    // basic has no auth
    try (TransportClient client = new TestXPackTransportClient(builder.build(), LocalStateSecurity.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
        assertGreenClusterState(client);
    }

    // enable a license that enables security
    License.OperationMode mode = randomFrom(License.OperationMode.GOLD,
    License.OperationMode.TRIAL,
    License.OperationMode.PLATINUM, License.OperationMode.STANDARD);
    enableLicensing(mode);
    try (TransportClient client = new TestXPackTransportClient(builder.build(), LocalStateSecurity.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
        client.admin().cluster().prepareHealth().get();
        fail("should not have been able to connect to a node!");
    } catch (NoNodeAvailableException e) {
        // expected
    }
}

public void testNodeJoinWithoutSecurityExplicitlyEnabled() throws Exception {
    License.OperationMode mode = randomFrom(License.OperationMode.GOLD,
    License.OperationMode.TRIAL,
    License.OperationMode.PLATINUM, License.OperationMode.STANDARD);
Path home = createTempDir();
Path conf = home.resolve("config");
Files.createDirectories(conf);
Settings nodeSettings = Settings.builder()
    .put(nodeSettings(maxNumberOfNodes() - 1).filter(s -> "xpack.security.enabled".equals(s) == false))
    .put("node.name", "my-test-node")
    .put("network.host", "localhost")
    .put("cluster.name", internalCluster().getClusterName())
    .put("discovery.zen.minimum_master_nodes",
        internalCluster().getInstance(Settings.class).get("discovery.zen.minimum_master_nodes"))
    .put("path.home", home)
    .put(TestZenDiscovery.USE_MOCK_PINGS.getKey(), false)
    .put(DiscoveryModule.DISCOVERY_TYPE_SETTING.getKey(), "test-zen")
    .put(DiscoveryModule.DISCOVERY_HOSTS_PROVIDER_SETTING.getKey(), "test-zen")
    .build();
Collection<Class<? extends Plugin>> mockPlugins = Arrays.asList(LocalStateSecurity.class,
    TestZenDiscovery.TestPlugin.class);
try (Node node = new MockNode(nodeSettings, mockPlugins)) {
    node.start();
    ensureStableCluster(cluster().size() + 1);
}

private static void assertElasticsearchSecurityException(ThrowingRunnable runnable) {
    ElasticsearchSecurityException ee = expectThrows(ElasticsearchSecurityException.class, runnable);
    assertThat(ee.getMetadata(LicenseUtils.EXPIRED_FEATURE_METADATA),
        hasItem(XPackField.SECURITY));
    assertThat(ee.status(), is(RestStatus.FORBIDDEN));
}

public static void disableLicensing() {
    disableLicensing(License.OperationMode.BASIC);
}

public static void disableLicensing(License.OperationMode operationMode) {
    for (XPackLicenseState licenseState : internalCluster().getInstances(XPackLicenseState.class)) {
        licenseState.update(operationMode, false, null);
    }
}

public static void enableLicensing() {
    enableLicensing(License.OperationMode.BASIC);
}

public static void enableLicensing(License.OperationMode operationMode) {
package org.elasticsearch.xpack.security.authz.permission;

import org.elasticsearch.action.get.GetAction;
import org.elasticsearch.xpack.core.security.authz.permission.Role;
import org.elasticsearch.xpack.core.security.authz.privilege.Privilege;
import org.junit.Before;
import java.util.function.Predicate;
import static org.elasticsearch.xpack.core.security.authz.privilege.IndexPrivilege.MONITOR;
import static org.elasticsearch.xpack.core.security.authz.privilege.IndexPrivilege.READ;
import static org.hamcrest.Matchers.is;
import static org.hamcrest.Matchers.notNullValue;

public class PermissionTests extends ESTestCase {
    private Role permission;

    @Before
    public void init() {
        Role.Builder builder = Role.builder("test");
        builder.add(MONITOR, "test_*", "/foo.*/);
        builder.add(READ, "baz_*foo", "/fool.*bar/");
        builder.add(MONITOR, "/bar.*/");
        permission = builder.build();
    }

    public void testAllowedIndicesMatcherAction() throws Exception {
        testAllowedIndicesMatcher(permission.indices().allowedIndicesMatcher(GetAction.NAME));
    }

    public void testAllowedIndicesMatcherActionCaching() throws Exception {
        Predicate<String> matcher1 = permission.indices().allowedIndicesMatcher(GetAction.NAME);
        Predicate<String> matcher2 = permission.indices().allowedIndicesMatcher(GetAction.NAME);
        assertThat(matcher1, is(matcher2));
    }

    public void testBuildEmptyRole() {
    
}
Role.Builder permission = Role.builder(new String[] { "some_role" });
Role role = permission.build();
assertThat(role, notNullValue());
assertThat(role.cluster(), notNullValue());
assertThat(role.indices(), notNullValue());
assertThat(role.runAs(), notNullValue());
}

public void testRunAs() {
    Role permission = Role.builder("some_role")
        .runAs(new Privilege("name", "user1", "run*"))
        .build();
    assertThat(permission.runAs().check("user1"), is(true));
    assertThat(permission.runAs().check("user"), is(false));
    assertThat(permission.runAs().check("run" + randomAlphaOfLengthBetween(1, 10)), is(true));
}

// "baz_*foo", "/fool.*bar/"
private void testAllowedIndicesMatcher(Predicate<String> indicesMatcher) {
    assertThat(indicesMatcher.test("foobar"), is(false));
    assertThat(indicesMatcher.test("fool"), is(false));
    assertThat(indicesMatcher.test("fool2bar"), is(true));
    assertThat(indicesMatcher.test("baz_foo"), is(true));
    assertThat(indicesMatcher.test("barbapapa"), is(false));
}

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*/
package org.elasticsearch.xpack.security.authz.permission;

import org.elasticsearch.ElasticsearchParseException;
import org.elasticsearch.common.bytes.BytesArray;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.test.ESTestCase;
import org.elasticsearch.xpack.core.security.authz.RoleDescriptor;
import org.elasticsearch.xpack.core.security.authz.permission.FieldPermissions;
import org.elasticsearch.xpack.core.security.authz.permission.FieldPermissionsDefinition;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collections;
import java.util.List;
import java.util.concurrent.CountDownLatch;
import java.util.concurrent.atomic.AtomicReferenceArray;
import static org.hamcrest.Matchers.containsString;

global class FieldPermissionsTests extends ESTestCase {

    public void testParseFieldPermissions() throws Exception {
        String q = "{"\"indices\": [ {\"names\": \"idx2\", \"privileges\": [\"p3\"]}, " + "\"field_security\": {" + "\"grant\": [\"f1\", \"f2\", \"f3\", \"f4\"], + "\"except\": [\"f3\",\"f4\"]" + "] },"]");
        RoleDescriptor rd = 
            RoleDescriptor.parse("test", new BytesArray(q), false, XContentType.JSON);
        assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(), new String[]{"f1", "f2", "f3", "f4");
        assertArrayEquals(rd.getIndicesPrivileges()[0].getDeniedFields(), new String[]{"f3", "f4");

        q = "{"\"indices\": [ {\"names\": \"idx2\", \"privileges\": [\"p3\"]}, " + "\"field_security\": {" + "\"grant\": [\"f1\", \"f2\", \"f3\", \"f4\"] + "\"except\": [\"f3\",\"f4\"]" + "] }]}");
        rd = RoleDescriptor.parse("test", new BytesArray(q), false, XContentType.JSON);
        assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(), new String[]{"f1", "f2", "f3", "f4");
        assertArrayEquals(rd.getIndicesPrivileges()[0].getDeniedFields(), new String[]{"f3", "f4");

        q = "{"\"indices\": [ {\"names\": \"idx2\", \"privileges\": [\"p3\"]}, " + "\"field_security\": {" + "\"grant\": [\"f1\", "] + "\"except\": [\"f1\",\"f2\"]" + "] }]}");
        rd = RoleDescriptor.parse("test", new BytesArray(q), false, XContentType.JSON);
        assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(), new String[]{"f1", "f2");
        assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());

        q = "{"\"indices\": [ {\"names\": \"idx2\", \"privileges\": [\"p3\"]}, " + "\"field_security\": {" + "\"grant\": [], + "\"except\": [\"] + "] }]}");
        rd = RoleDescriptor.parse("test", new BytesArray(q), false, XContentType.JSON);
        assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(), new String[]{})
        assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());
    }
}
"grant": ["p3"]}, "field_security": {
  "except": ["f1"]
}}
};
ElasticsearchParseException e = expectThrows(ElasticsearchParseException.class,
  () -> RoleDescriptor.parse("test", new BytesArray(exceptWithoutGrant), false,
  XContentType.JSON));
assertThat(e.getDetailedMessage(), containsString("failed to parse indices privileges for role [test]. field_security" + " requires grant if except is given"));

final String grantNull = "{"indices": [ {"names": "idx2", "privileges": ["p3"], "field_security": {
  "grant": null
  } ] }";
ElasticsearchParseException e = expectThrows(ElasticsearchParseException.class,
  () -> RoleDescriptor.parse("test", new BytesArray(grantNull), false,
  XContentType.JSON));
assertThat(e.getDetailedMessage(), containsString("failed to parse indices privileges for role [test]. grant must not be null.");

final String exceptNull = "{"indices": [ {"names": "idx2", "privileges": ["p3"], "field_security": {
  "grant": ["*"], "except": null
  } ] }";
ElasticsearchParseException e = expectThrows(ElasticsearchParseException.class,
  () -> RoleDescriptor.parse("test", new BytesArray(exceptNull), false,
  XContentType.JSON));
assertThat(e.getDetailedMessage(), containsString("failed to parse indices privileges for role [test]. except must not be null.");

final String exceptGrantNull = "{"indices": [ {"names": "idx2", "privileges": ["p3"], "field_security": {
  "grant": null,
  "except": null
  } ] }";
ElasticsearchParseException e = expectThrows(ElasticsearchParseException.class,
  () -> RoleDescriptor.parse("test", new BytesArray(exceptGrantNull), false,
  XContentType.JSON));
assertThat(e.getDetailedMessage(), containsString("failed to parse indices privileges for role [test]. except must not be null.");
"for role [test]. grant must not be null.");

final String bothFieldsMissing = "{\"indices\": [{\"names\": \"idx2\", \"privileges\": " + "[\"p3\"], \"field_security\": {" + ")]]; e = expectThrows(ElasticsearchParseException.class, 
() -> RoleDescriptor.parse("test", new BytesArray(bothFieldsMissing), false, 
XContentType.JSON)); assertThat(e.getDetailedMessage(), containsString("failed to parse indices privileges " + 
"for role [test]. \"field_security\" must not be empty.");

// try with two indices and mix order a little
q = "{\"indices\": [{\"names\": \"idx2\", \"privileges\": [\"p3\"], " + 
"\"field_security\": {" + 
"\"grant\": ["] + 
"\"names\": \"idx3\",\n" + 
"\"grant\": [\"*\"], \n" + 
"\"except\": [\"f2\"]]," + 
"\"privileges\": [\"p3\"]}]}"); rd = RoleDescriptor.parse("test", new BytesArray(q), false, XContentType.JSON); assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(), new String[]{}); assertNull(rd.getIndicesPrivileges()[0].getDeniedFields()); assertArrayEquals(rd.getIndicesPrivileges()[1].getGrantedFields(), new String[]{"*"}); assertArrayEquals(rd.getIndicesPrivileges()[1].getDeniedFields(), new String[]{"f2"});

// test old syntax for field permissions
public void testBWCFieldPermissions() throws Exception {
    String q = "{\"indices\": [{\"names\": \"idx2\", \"privileges\": [\"p3\"], " + 
    "\"fields\": [\"f1\", \"f2\"]}]");
    RoleDescriptor rd = RoleDescriptor.parse("test", new BytesArray(q), true, 
XContentType.JSON); assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(), new String[]{"f1", "f2"});
assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());

final String failingQuery = q; ElasticsearchParseException e = expectThrows(ElasticsearchParseException.class, 
() -> RoleDescriptor.parse("test", new BytesArray(failingQuery), false, 
XContentType.JSON)); assertThat(e.getDetailedMessage(), containsString("[\"fields\": [...]] format has " + 
"changed for field permissions in role [test]" + 
", use [\"field_security\": {\"grant\"::[...],\"except\"::[...]] instead");

q = "{\"indices\": [{\"names\": \"idx2\", \"privileges\": [\"p3\"], " +
"\"fields\": [] + 
"\"]\";
rd = RoleDescriptor.parse("test", new BytesArray(q), true, XContentType.JSON);
assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(), new String[]{}, rd.getIndicesPrivileges()[0].getDeniedFields());
final String failingQuery2 = q;
e = expectThrows(ElasticsearchParseException.class, () -> RoleDescriptor.parse("test", new BytesArray(failingQuery2), false, XContentType.JSON);
assertThat(e.getDetailedMessage(), containsString("[\"fields\": [...]] format has \" + 
"changed for field permissions in role [test]\" + ", use \"[\"field_security\": {\"grant\": [...],\"except\": [...]\"]\" instead));

q = "{"\"indices\": { \"\"names\": \"idx2\", \"\"privileges\": {\"p3\"}, \" + 
\"\"fields\": null\" + 
\"]\"};
rd = RoleDescriptor.parse("test", new BytesArray(q), true, XContentType.JSON);
assertNull(rd.getIndicesPrivileges()[0].getGrantedFields());
assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());
final String failingQuery3 = q;
e = expectThrows(ElasticsearchParseException.class, () -> RoleDescriptor.parse("test", new BytesArray(failingQuery3), false, XContentType.JSON);
assertThat(e.getDetailedMessage(), containsString("[\"fields\": [...]] format has \" + 
"changed for field permissions in role [test]\" + ", use \"[\"field_security\": {\"grant\": [...],\"except\": [...]\"]\" instead));
}

public void testFieldPermissionsHashCodeThreadSafe() throws Exception {
    final int numThreads = scaledRandomIntBetween(4, 16);
    final FieldPermissions fieldPermissions = new FieldPermissions(new FieldPermissionsDefinition(new String[] {"*"}, new String[]{"foo"}));
    final CountDownLatch latch = new CountDownLatch(numThreads + 1);
    final AtomicReferenceArray<Integer> hashCodes = new AtomicReferenceArray<>(numThreads);
    List<Thread> threads = new ArrayList<>(numThreads);
    for (int i = 0; i < numThreads; i++) {
        final int threadNum = i;
        threads.add(new Thread(() -> {
            latch.countDown();
            try {
                latch.await();
            } catch (InterruptedException e) {
                Thread.currentThread().interrupt();
            }
            final int hashCode = fieldPermissions.hashCode();
            hashCodes.set(threadNum, hashCode);
        }));
    }
}
for (Thread thread : threads) {
    thread.start();
}
latch.countDown();
for (Thread thread : threads) {
    thread.join();
}

final int hashCode = fieldPermissions.hashCode();
for (int i = 0; i < numThreads; i++) {
    assertEquals((Integer) hashCode, hashCodes.get(i));
}

public void testAllFieldIsAutomaticallyExcludedIfNotExplicitlyGranted() throws Exception {
    final FieldPermissions fieldPermissions = new FieldPermissions(
        new FieldPermissionsDefinition(new String[] { "_a*" }, new String[0]));
    assertTrue(fieldPermissions.grantsAccessTo("_animal"));
    assertFalse(fieldPermissions.grantsAccessTo("_all"));
}

public void testAllFieldIsNotExcludedIfExplicitlyGranted() throws Exception {
    final String[] grant = { "foo", "bar", "baz", "_all" };
    Collections.shuffle(Arrays.asList(grant), random());

    final FieldPermissions fieldPermissions = new FieldPermissions(
        new FieldPermissionsDefinition(grant, new String[0]));

    assertTrue(fieldPermissions.grantsAccessTo("_all"));
    assertTrue(fieldPermissions.grantsAccessTo("foo"));
    assertTrue(fieldPermissions.grantsAccessTo("bar"));
    assertTrue(fieldPermissions.grantsAccessTo("baz"));
    assertFalse(fieldPermissions.grantsAccessTo(randomAlphaOfLengthBetween(5, 8)));
}

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*/  
/**/
package org.elasticsearch.protocol.xpack.license;

import java.io.IOException;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import org.elasticsearch.common.io.stream.Writeable;

/**
 * Status of an X-Pack license.
 */
public enum LicenseStatus implements Writeable {

    ACTIVE("active"),
    INVALID("Invalid"),
    EXPIRED("expired");

    private final String label;

    LicenseStatus(String label) {
        this.label = label;
    }

    public String label() {
        return label;
    }
}
@Override
public void writeTo(StreamOutput out) throws IOException {
    out.writeString(label);
}

public static LicenseStatus readFrom(StreamInput in) throws IOException {
    return fromString(in.readString());
}

public static LicenseStatus fromString(String value) {
    switch (value) {
    case "active":
        return ACTIVE;
    case "invalid":
        return INVALID;
    case "expired":
        return EXPIRED;
    default:
        throw new IllegalArgumentException("unknown license status [" + value + "]");
    }
}

package org.elasticsearch.protocol.xpack.license;
import java.io.IOException;
import org.elasticsearch.test.ESTestCase;

public class LicenseStatusTests extends ESTestCase {

    import java.io.IOException;
    import org.elasticsearch.test.ESTestCase;
    public class LicenseStatusTests extends ESTestCase {

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* /
package org.elasticsearch.protocol.xpack.license;

import java.io.IOException;
import org.elasticsearch.test.ESTestCase;

public class LicenseStatusTests extends ESTestCase {
public void testSerialization() throws IOException {
    LicenseStatus status = randomFrom(LicenseStatus.values());
    assertSame(status, copyWriteable(status, writableRegistry(), LicenseStatus::readFrom));
}
}

package org.elasticsearch.license.licensor;

import org.apache.lucene.util.BytesRef;
import org.apache.lucene.util.BytesRefIterator;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.hash.MessageDigests;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.license.CryptUtils;
import org.elasticsearch.license.License;
import java.io.IOException;
import java.nio.ByteBuffer;
import java.nio.file.Files;
import java.nio.file.Path;
import java.security.InvalidKeyException;
import java.security.MessageDigest;
import java.security.NoSuchAlgorithmException;
import java.security.PrivateKey;
import java.security.PublicKey;
import java.security.SecureRandom;
import java.security.Signature;
import java.security.SignatureException;
import java.util.Base64;
import java.util.Collections;
import java.util.Map;

/**
 * Responsible for generating a license signature according to the signature spec and sign it with
 * the provided encrypted private key
 */
public class LicenseSigner {

    private static final int MAGIC_LENGTH = 13;
    private final Path publicKeyPath;
    private final Path privateKeyPath;

    public void testSerialization() throws IOException {
        LicenseStatus status = randomFrom(LicenseStatus.values());
        assertSame(status, copyWriteable(status, writableRegistry(), LicenseStatus::readFrom));
    }
}

package org.elasticsearch.license.licensor;

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import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.license.CryptUtils;
import org.elasticsearch.license.License;
import java.io.IOException;
import java.nio.ByteBuffer;
import java.nio.file.Files;
import java.nio.file.Path;
import java.security.InvalidKeyException;
import java.security.MessageDigest;
import java.security.NoSuchAlgorithmException;
import java.security.PrivateKey;
import java.security.PublicKey;
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 * the provided encrypted private key
 */
public class LicenseSigner {

    private static final int MAGIC_LENGTH = 13;
    private final Path publicKeyPath;
    private final Path privateKeyPath;

    public void testSerialization() throws IOException {
        LicenseStatus status = randomFrom(LicenseStatus.values());
        assertSame(status, copyWriteable(status, writableRegistry(), LicenseStatus::readFrom));
    }
}
public LicenseSigner(final Path privateKeyPath, final Path publicKeyPath) {
    this.publicKeyPath = publicKeyPath;
    this.privateKeyPath = privateKeyPath;
}

/**
 * Generates a signature for the {@code licenseSpec}. Signature structure:
 * <code>
 *   | VERSION | MAGIC | PUB_KEY_DIGEST | SIGNED_LICENSECONTENT |
 * </code>
 *
 * @return a signed License
 */
public License sign(License licenseSpec) throws IOException {
    XContentBuilder contentBuilder = XContentFactory.contentBuilder(XContentType.JSON);
    final Map<String, String> licenseSpecViewMode =
        Collections.singletonMap(License.LICENSE_SPEC_VIEW_MODE, "true");
    licenseSpec.toXContent(contentBuilder, new ToXContent.MapParams(licenseSpecViewMode));
    final byte[] signedContent;
    final boolean preV4 = licenseSpec.version() < License.VERSION_CRYPTO_ALGORITHMS;
    try {
        final Signature rsa = Signature.getInstance("SHA512withRSA");
        PrivateKey decryptedPrivateKey =
            CryptUtils.readEncryptedPrivateKey(Files.readAllBytes(privateKeyPath));
        rsa.initSign(decryptedPrivateKey);
        final BytesRefIterator iterator = BytesReference.bytes(contentBuilder).iterator();
        BytesRef ref;
        while((ref = iterator.next()) != null) {
            rsa.update(ref.bytes, ref.offset, ref.length);
        }
        signedContent = rsa.sign();
    } catch (InvalidKeyException | IOException | NoSuchAlgorithmException | SignatureException e) {
        throw new IllegalStateException(e);
    }
    final byte[] magic = new byte[MAGIC_LENGTH];
    SecureRandom random = new SecureRandom();
    random.nextBytes(magic);
    final byte[] publicKeyBytes = Files.readAllBytes(publicKeyPath);
    PublicKey publicKey = CryptUtils.readPublicKey(publicKeyBytes);
    final byte[] pubKeyFingerprint = preV4 ?
        Base64.getEncoder().encode(CryptUtils.writeEncryptedPublicKey(publicKey)) :
        getPublicKeyFingerprint(publicKeyBytes);
    byte[] bytes = new byte[4 + 4 + MAGIC_LENGTH + 4 + pubKeyFingerprint.length + 4 +
        signedContent.length];
ByteBuffer byteBuffer = ByteBuffer.wrap(bytes);
byteBuffer.putInt(licenseSpec.version())
    .putInt(magic.length)
    .put(magic)
    .putInt(pubKeyFingerprint.length)
    .put(pubKeyFingerprint)
    .putInt(signedContent.length)
    .put(signedContent);

return License.builder()
    .fromLicenseSpec(licenseSpec, Base64.getEncoder().encodeToString(bytes))
    .build();
}

private byte[] getPublicKeyFingerprint(byte[] keyBytes) {
    MessageDigest sha256 = MessageDigests.sha256();
    sha256.update(keyBytes);
    return sha256.digest();
}

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package org.elasticsearch.license.licensor;

import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.license.DateUtils;
import org.elasticsearch.license.License;
import org.elasticsearch.license.LicenseVerifier;
import org.elasticsearch.license.test.ESTestCase;
import org.junit.After;
import org.junit.Before;
import java.nio.file.Files;
import java.nio.file.Path;

public class LicenseVerificationTests extends ESTestCase {

    protected Path pubKeyPath = null;
    protected Path priKeyPath = null;

    @Before
    public void setup() throws Exception {
        pubKeyPath = getDataPath("/public.key");
        priKeyPath = getDataPath("/private.key");
    }

    @After
    public void cleanUp() {
        pubKeyPath = null;
        priKeyPath = null;
    }

    public void testGeneratedLicenses() throws Exception {
        final TimeValue fortyEightHours = TimeValue.timeValueHours(2 * 24);
        final License license =
                TestUtils.generateSignedLicense(fortyEightHours, pubKeyPath, priKeyPath);
        assertTrue(LicenseVerifier.verifyLicense(license, Files.readAllBytes(pubKeyPath)));
    }

    public void testLicenseTampering() throws Exception {
        final TimeValue twoHours = TimeValue.timeValueHours(2);
        License license =
                TestUtils.generateSignedLicense(twoHours, pubKeyPath, priKeyPath);
        final License tamperedLicense = License.builder()
                .fromLicenseSpec(license, license.signature())
                .expiryDate(license.expiryDate() + 10 * 24 * 60 * 60 * 1000L)
                .validate()
import org.elasticsearch.common.Strings;
import org.elasticsearch.common.joda.DateMathParser;

public void testRandomLicenseVerification() throws Exception {
    TestUtils.LicenseSpec licenseSpec = TestUtils.generateRandomLicenseSpec(
        randomIntBetween(License.VERSION_START, License.VERSION_CURRENT));
    License generatedLicense = generateSignedLicense(licenseSpec, pubKeyPath, priKeyPath);
    assertTrue(LicenseVerifier.verifyLicense(generatedLicense, Files.readAllBytes(pubKeyPath)));}

private static License generateSignedLicense(
    TestUtils.LicenseSpec spec, Path pubKeyPath, Path priKeyPath) throws Exception {
    LicenseSigner signer = new LicenseSigner(priKeyPath, pubKeyPath);
    License.Builder builder = License.builder() .uid(spec.uid) .feature(spec.feature) .type(spec.type) .subscriptionType(spec.subscriptionType) .issuedTo(spec.issuedTo) .issuer(spec.issuer) .maxNodes(spec.maxNodes);

    if (spec.expiryDate != null) {
        builder.expiryDate(DateUtils.endOfTheDay(spec.expiryDate));
    } else {
        builder.expiryDate(spec.expiryDateInMillis);
    }

    if (spec.issueDate != null) {
        builder.issueDate(DateUtils.beginningOfTheDay(spec.issueDate));
    } else {
        builder.issueDate(spec.issueDateInMillis);
    }

    builder.version(spec.version);
    return signer.sign(builder.build());
}

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 */

package org.elasticsearch.license.licensor;

assertFalse(LicenseVerifier.verifyLicense(tamperedLicense, Files.readAllBytes(pubKeyPath)));
import org.elasticsearch.common.joda.FormatDateTimeFormatter;
import org.elasticsearch.common.joda.Joda;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentFactory;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.license.DateUtils;
import org.elasticsearch.license.License;
import org.elasticsearch.test.ESTestCase;
import org.hamcrest.MatcherAssert;
import org.joda.time.format.DateTimeFormatter;
import java.io.IOException;
import java.nio.file.Path;
import java.util.UUID;
import static com.carrotsearch.randomizedtesting.RandomizedTest.randomBoolean;
import static com.carrotsearch.randomizedtesting.RandomizedTest.randomInt;
import static com.carrotsearch.randomizedtesting.RandomizedTest.randomIntBetween;
import static org.elasticsearch.common.xcontent.XContentFactory.jsonBuilder;
import static org.elasticsearch.test.ESTestCase.randomFrom;
import static org.hamcrest.core.IsEqual.equalTo;

public class TestUtils {

    public static final String PUBLIC_KEY_RESOURCE = "public.key";
    public static final String PRIVATE_KEY_RESOURCE = "private.key";

    private static final FormatDateTimeFormatter formatDateTimeFormatter =
            Joda.forPattern("yyyy-MM-dd");
    private static final DateMathParser dateMathParser =
            new DateMathParser(formatDateTimeFormatter);
    private static final DateTimeFormatter dateTimeFormatter = formatDateTimeFormatter.printer();

    public static String dumpLicense(License license) throws Exception {
        XContentBuilder builder = XContentFactory.contentBuilder(XContentType.JSON);
        builder.startObject();
        builder.startObject("license");
        license.toInnerXContent(builder, ToXContent.EMPTY_PARAMS);
        builder.endObject();
        builder.endObject();
        return Strings.toString(builder);
    }

    public static String dateMathString(String time, final long now) {
        return dateTimeFormatter.print(dateMathParser.parse(time, () -> now));
    }
}
public static long dateMath(String time, final long now) {
    return dateMathParser.parse(time, () -> now);
}

public static LicenseSpec generateRandomLicenseSpec(int version) {
    boolean datesInMillis = randomBoolean();
    long now = System.currentTimeMillis();
    String uid = UUID.randomUUID().toString();
    String issuer = "issuer__" + randomInt();
    String issuedTo = "issuedTo__" + randomInt();
    String type = version < License.VERSION_NO_FEATURE_TYPE ?
        randomFrom("subscription", "internal", "development") :
        randomFrom("basic", "silver", "dev", "gold", "platinum");
    final String subscriptionType;
    final String feature;
    if (version < License.VERSION_NO_FEATURE_TYPE) {
        subscriptionType = randomFrom("gold", "silver", "platinum");
        feature = "feature__" + randomInt();
    } else {
        subscriptionType = null;
        feature = null;
    }
    int maxNodes = randomIntBetween(5, 100);
    if (datesInMillis) {
        long issueDateInMillis = dateMath("now", now);
        long expiryDateInMillis = dateMath("now+10d/d", now);
        return new LicenseSpec(
            version,
            uid,
            feature,
            issueDateInMillis,
            expiryDateInMillis,
            type,
            subscriptionType,
            issuedTo,
            issuer,
            maxNodes);
    } else {
        String issueDate = dateMathString("now", now);
        String expiryDate = dateMathString("now+10d/d", now);
        return new LicenseSpec(
            version,
            uid,
            feature,
            issueDate,
            expiryDate, type,
            subscriptionType,
public static String generateLicenseSpecString(LicenseSpec licenseSpec) throws IOException {
    XContentBuilder licenses = jsonBuilder();
    licenses.startObject();
    licenses.startObject("license")
        .field("uid", licenseSpec.uid)
        .field("type", licenseSpec.type)
        .field("subscription_type", licenseSpec.subscriptionType)
        .field("issued_to", licenseSpec.issuedTo)
        .field("issuer", licenseSpec.issuer)
        .field("feature", licenseSpec.feature)
        .field("max_nodes", licenseSpec.maxNodes);
    if (licenseSpec.issueDate != null) {
        licenses.field("issue_date", licenseSpec.issueDate);
    } else {
        licenses.field("issue_date_in_millis", licenseSpec.issueDateInMillis);
    }
    if (licenseSpec.expiryDate != null) {
        licenses.field("expiry_date", licenseSpec.expiryDate);
    } else {
        licenses.field("expiry_date_in_millis", licenseSpec.expiryDateInMillis);
    }
    licenses.field("version", licenseSpec.version);
    licenses.endObject();
    licenses.endObject();
    return Strings.toString(licenses);
}

public static void assertLicenseSpec(LicenseSpec spec, License license) {
    MatcherAssert.assertThat(license.uid(), equalTo(spec.uid));
    MatcherAssert.assertThat(license.issuedTo(), equalTo(spec.issuedTo));
    MatcherAssert.assertThat(license.issuer(), equalTo(spec.issuer));
    MatcherAssert.assertThat(license.type(), equalTo(spec.type));
    MatcherAssert.assertThat(license.maxNodes(), equalTo(spec.maxNodes));
    if (spec.issueDate != null) {
        MatcherAssert.assertThat(
            license.issueDate(),
            equalTo(DateUtils.beginningOfTheDay(spec.issueDate)));
    } else {
        MatcherAssert.assertThat(license.issueDate(), equalTo(spec.issueDateInMillis));
    }
    if (spec.expiryDate != null) {
        MatcherAssert.assertThat(
            license.expiryDate(),
            equalTo(DateUtils.beginningOfTheDay(spec.expiryDate)));
    } else {
        MatcherAssert.assertThat(license.expiryDate(), equalTo(spec.expiryDateInMillis));
    }
}
MatcherAssert.assertThat(license.expiryDate(), equalTo(DateUtils.endOfTheDay(spec.expiryDate)));
} else {
    MatcherAssert.assertThat(license.expiryDate(), equalTo(spec.expiryDateInMillis));
}
}

public static License generateSignedLicense(
    TimeValue expiryDuration, Path pubKeyPath, Path priKeyPath) throws Exception {
    long issue = System.currentTimeMillis();
    int version = ESTestCase.randomIntBetween(License.VERSION_START, License.VERSION_CURRENT);
    String type = version < License.VERSION_NO_FEATURE_TYPE ?
        randomFrom("subscription", "internal", "development") :
        randomFrom("trial", "basic", "silver", "dev", "gold", "platinum");

    final License.Builder builder = License.builder()
        .uid(UUID.randomUUID().toString())
        .expiryDate(issue + expiryDuration.getMillis())
        .issueDate(issue)
        .version(version)
        .type(type)
        .issuedTo("customer")
        .issuer("elasticsearch")
        .maxNodes(5);
    if (version == License.VERSION_START) {
        builder.subscriptionType(randomFrom("dev", "gold", "platinum", "silver"));
        builder.feature(ESTestCase.randomAlphaOfLength(10));
    }
    LicenseSigner signer = new LicenseSigner(priKeyPath, pubKeyPath);
    return signer.sign(builder.build());
}

public static class LicenseSpec {
    public final int version;
    public final String feature;
    public final String issueDate;
    public final long issueDateInMillis;
    public final String expiryDate;
    public final long expiryDateInMillis;
    public final String uid;
    public final String type;
    public final String subscriptionType;
    public final String issuedTo;
    public final String issuer;
    public final int maxNodes;

    public LicenseSpec(
        int version,
public LicenseSpec(
    int version,
    String uid,
    String feature,
    String issueDate,
    String expiryDate,
    String type,
    String subscriptionType,
    String issuedTo,
    String issuer,
    int maxNodes) {
    this.version = version;
    this.feature = feature;
    this.issueDate = issueDate;
    this.issueDateInMillis = -1;
    this.expiryDate = expiryDate;
    this.expiryDateInMillis = -1;
    this.uid = uid;
    this.type = type;
    this.subscriptionType = subscriptionType;
    this.issuedTo = issuedTo;
    this.issuer = issuer;
    this.maxNodes = maxNodes;
}
import org.elasticsearch.cli.Command;  
import org.elasticsearch.cli.CommandTestCase; 
import org.elasticsearch.cli.ExitCodes;  
import org.elasticsearch.cli.UserException;  
import java.nio.file.Files;  
import java.nio.file.Path;  
import static org.hamcrest.CoreMatchers.containsString;  

public class KeyPairGenerationToolTests extends CommandTestCase { 
  
  @Override 
  protected Command newCommand() { 
    return new KeyPairGeneratorTool(); 
  } 

  public void testMissingKeyPaths() throws Exception { 
    Path exists = createTempFile("", "existing"); 
    Path dne = createTempDir().resolve("dne"); 
    UserException e = expectThrows( 
      UserException.class, 
      () -> execute( 
        "--publicKeyPath", 
        exists.toString(), 
        "--privateKeyPath", 
        dne.toString())); 
    assertThat(e.getMessage(), containsString("existing")); 
    assertEquals(ExitCodes.USAGE, e.exitCode); 
    e = expectThrows( 
      UserException.class, 
      () -> execute( 
        "--publicKeyPath", 
        dne.toString(), 
        "--privateKeyPath", 
        exists.toString())); 
    assertThat(e.getMessage(), containsString("existing")); 
    assertEquals(ExitCodes.USAGE, e.exitCode); 
  } 
}
public void testTool() throws Exception {
    Path keysDir = createTempDir();
    Path publicKeyFilePath = keysDir.resolve("public");
    Path privateKeyFilePath = keysDir.resolve("private");

    execute("--publicKeyPath",
            publicKeyFilePath.toString(),
            "--privateKeyPath",
            privateKeyFilePath.toString());
    assertTrue(publicKeyFilePath.toString(), Files.exists(publicKeyFilePath));
    assertTrue(privateKeyFilePath.toString(), Files.exists(privateKeyFilePath));
}
}

package org.elasticsearch.license.licensor.tools;

import org.elasticsearch.cli.Command;
import org.elasticsearch.cli.CommandTestCase;
import org.elasticsearch.cli.ExitCodes;
import org.elasticsearch.cli.UserException;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.license.License;
import org.elasticsearch.license.licensor.TestUtils;
import org.junit.Before;
import java.nio.charset.StandardCharsets;
import java.nio.file.Files;
import java.nio.file.Path;

public class LicenseVerificationToolTests extends CommandTestCase {
    protected Path pubKeyPath = null;
    protected Path priKeyPath = null;

    @Before
    public void setup() throws Exception {
        logger.error("project.basedir [{}]", System.getProperty("project.basedir"));
        pubKeyPath = getDataPath(TestUtils.PUBLIC_KEY_RESOURCE);
        priKeyPath = getDataPath(TestUtils.PRIVATE_KEY_RESOURCE);
    }

    @Override

protected Command newCommand() {
    return new LicenseVerificationTool();
}

class TestLicenseVerificationTool {
    public void testMissingKeyPath() throws Exception {
        Path pub = createTempDir().resolve("pub");
        UserException e = expectThrows(
            UserException.class,
            () -> execute("--publicKeyPath", pub.toString()));
        assertTrue(e.getMessage(), e.getMessage().contains("pub does not exist");
        assertEquals(ExitCodes.USAGE, e.exitCode);
    }

    public void testMissingLicenseSpec() throws Exception {
        UserException e = expectThrows(UserException.class, () -> {
            execute("--publicKeyPath", pubKeyPath.toString());
        });
        assertTrue(
            e.getMessage(),
            e.getMessage().contains("Must specify either --license or --licenseFile");
        assertEquals(ExitCodes.USAGE, e.exitCode);
    }

    public void testBrokenLicense() throws Exception {
        final TimeValue oneHour = TimeValue.timeValueHours(1);
        License signedLicense = TestUtils.generateSignedLicense(oneHour, pubKeyPath, priKeyPath);
        License tamperedLicense = License.builder()
            .fromLicenseSpec(signedLicense, signedLicense.signature())
            .expiryDate(signedLicense.expiryDate() + randomIntBetween(1, 1000)).build();
        UserException e = expectThrows(
            UserException.class,
            () -> execute("--publicKeyPath", pubKeyPath.toString(),
            "--license",
            TestUtils.dumpLicense(tamperedLicense));
        assertEquals("Invalid License!", e.getMessage());
        assertEquals(ExitCodes.DATA_ERROR, e.exitCode);
    }

    public void testLicenseSpecString() throws Exception {
        final TimeValue oneHour = TimeValue.timeValueHours(1);
        License signedLicense = TestUtils.generateSignedLicense(oneHour, pubKeyPath, priKeyPath);
        String output = execute("--publicKeyPath", pubKeyPath.toString(),
            "--license",
            TestUtils.dumpLicense(signedLicense));
        assertEquals("Expected output", output, String.valueOf(signedLicense));
    }
}
public class LicenseGenerationToolTests extends CommandTestCase {

    protected Path pubKeyPath = null;
    protected Path priKeyPath = null;

    @Before
    public void setup() throws Exception {
        pubKeyPath = getDataPath(TestUtils.PUBLIC_KEY_RESOURCE);
    }

    protected Path pubKeyPath = null;
    protected Path priKeyPath = null;

    @Before
    public void setup() throws Exception {
        pubKeyPath = getDataPath(TestUtils.PUBLIC_KEY_RESOURCE);
    }

    import org.elasticsearch.license.licensor.tools;
    import org.elasticsearch.license.licensor.TestUtils;
    import java.nio.file.Files;
    import java.nio.file.Path;

    public class LicenseGenerationToolTests extends CommandTest
    
protected Path pubKeyPath = null;
protected Path priKeyPath = null;

@Before
public void setup() throws Exception {
    pubKeyPath = getDataPath(TestUtils.PUBLIC_KEY_RESOURCE);
}

import org.elasticsearch.license.licensor.tools;
import org.elasticsearch.license.licensor.TestUtils;
import java.nio.file.Files;
import java.nio.file.Path;

public class LicenseGenerationToolTests extends CommandTest {

protected Path pubKeyPath = null;
protected Path priKeyPath = null;

@Before
public void setup() throws Exception {
    pubKeyPath = getDataPath(TestUtils.PUBLIC_KEY_RESOURCE);
}
priKeyPath = getDataPath(TestUtils.PRIVATE_KEY_RESOURCE);
}

@Override
protected Command newCommand() {
    return new LicenseGeneratorTool();
}

public void testMissingKeyPaths() throws Exception {
    Path pub = createTempDir().resolve("pub");
    Path pri = createTempDir().resolve("pri");
    UserException e = expectThrows(
        UserException.class,
        () -> execute(
            "--publicKeyPath",
            pub.toString(),
            "--privateKeyPath",
            pri.toString()));
    assertTrue(e.getMessage(), e.getMessage().contains("pri does not exist");
    assertEquals(ExitCodes.USAGE, e.exitCode);

    Files.createFile(pri);
    e = expectThrows(
        UserException.class,
        () -> execute(
            "--publicKeyPath",
            pub.toString(),
            "--privateKeyPath",
            pri.toString()));
    assertTrue(e.getMessage(), e.getMessage().contains("pub does not exist");
    assertEquals(ExitCodes.USAGE, e.exitCode);
}

public void testMissingLicenseSpec() throws Exception {
    UserException e = expectThrows(
        UserException.class,
        () -> execute(
            "--publicKeyPath",
            pubKeyPath.toString(),
            "--privateKeyPath",
            priKeyPath.toString()));
    assertTrue(
        e.getMessage(),
        e.getMessage().contains("Must specify either --license or --licenseFile");
    assertEquals(ExitCodes.USAGE, e.exitCode);
}

public void testLicenseSpecString() throws Exception {
TestUtils.LicenseSpec inputLicenseSpec = 
    TestUtils.generateRandomLicenseSpec(License.VERSION_CURRENT);
String licenseSpecString = TestUtils.generateLicenseSpecString(inputLicenseSpec);
String output = execute(
    "--publicKeyPath",
    pubKeyPath.toString(),
    "--privateKeyPath",
    priKeyPath.toString(),
    "--license",
    licenseSpecString);
final BytesArray bytes = new BytesArray(output.getBytes(StandardCharsets.UTF_8));
License outputLicense = License.fromSource(bytes, XContentType.JSON);
TestUtils.assertLicenseSpec(inputLicenseSpec, outputLicense);
}

public void testLicenseSpecFile() throws Exception {
    TestUtils.LicenseSpec inputLicenseSpec = 
        TestUtils.generateRandomLicenseSpec(License.VERSION_CURRENT);
    String licenseSpecString = TestUtils.generateLicenseSpecString(inputLicenseSpec);
    Path licenseSpecFile = createTempFile();
    Files.write(licenseSpecFile, licenseSpecString.getBytes(StandardCharsets.UTF_8));
    String output = execute(
        "--publicKeyPath",
        pubKeyPath.toString(),
        "--privateKeyPath",
        priKeyPath.toString(),
        "--licenseFile",
        licenseSpecFile.toString());
    final BytesArray bytes = new BytesArray(output.getBytes(StandardCharsets.UTF_8));
    License outputLicense = License.fromSource(bytes, XContentType.JSON);
    TestUtils.assertLicenseSpec(inputLicenseSpec, outputLicense);
}

apply plugin: 'elasticsearch.build'

dependencies {
    compile project(path: xpackModule('core'), configuration: 'shadow')
    compile "org.elasticsearch:elasticsearch:${version}"
    testCompile "org.elasticsearch.test:framework:${version}" 
}

project.forbiddenPatterns {
    exclude '*/*.key'
}

dependencyLicenses.enabled = false
task buildZip(type: Zip, dependsOn: jar) {
    String parentDir = 'license-tools-$\{version\}'
    into(parentDir + '/lib') {
        from jar
        from configurations.runtime
    }
    into(parentDir + '/bin') {
        from 'bin'
    }
}

assemble.dependsOn buildZip

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BSD-licensed, created by Anders Mller. See http://www.brics.dk/automaton/

The levenshtein automata tables (under core/src/java/org/apache/lucene/util/automaton) were
automatically generated with the moman/finenight FSA library, created by
Jean-Philippe Barrette-LaPierre. This library is available under an MIT license,
see http://sites.google.com/site/rrettesite/moman and
http://bitbucket.org/jpbarrette/moman/overview/

The class org.apache.lucene.util.WeakIdentityMap was derived from
the Apache CXF project and is Apache License 2.0.

The Google Code Prettify is Apache License 2.0.
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This product includes code (JaspellTernarySearchTrie) from Java Spelling Checkin
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The snowball stemmers in
  analysis/common/src/java/net/sf/snowball
were developed by Martin Porter and Richard Boulton.
The snowball stopword lists in
  analysis/common/src/resources/org/apache/lucene/analysis/snowball
were developed by Martin Porter and Richard Boulton.
The full snowball package is available from
  http://snowball.tartarus.org/

The KStem stemmer in
  analysis/common/src/org/apache/lucene/analysis/en
was developed by Bob Krovetz and Sergio Guzman-Lara (CIIR-UMass Amherst)
under the BSD-license.

The Arabic,Persian,Romanian,Bulgarian, Hindi and Bengali analyzers (common) come with a default
stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:
  analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,
  analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
  analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
  analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
  analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,
  analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt

The German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers
(common) are based on BSD-licensed reference implementations created by Jacques Savoy and
Ljiljana Dolamic. These files reside in:
  analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
  analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
  analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
  analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
  analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
  analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
  analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
  analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
  analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
  analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
  analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

The Stempel analyzer (stempel) includes BSD-licensed software developed
by the Egothor project http://egothor.sf.net/, created by Leo Galambos, Martin Kvapil, and Edmond Nolan.

The Polish analyzer (stempel) comes with a default stopword list that is BSD-licensed created by the Carrot2 project. The file resides in stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt. See http://project.carrot2.org/license.html.

The SmartChineseAnalyzer source code (smarten) was provided by Xiaoping Gao and copyright 2009 by www.imdict.net.

WordBreakTestUnicode_*.java (under modules/analysis/common/src/test/) is derived from Unicode data such as the Unicode Character Database. See http://unicode.org/copyright.html for more details.

The Morfologik analyzer (morfologik) includes BSD-licensed software developed by Dawid Weiss and Marcin Mikowski (http://morfologik.blogspot.com/).

Morfologik uses data from Polish ispell/myspell dictionary (http://www.sjp.pl/slownik/en/) licenced on the terms of (inter alia) LGPL and Creative Commons ShareAlike.

Morfologic includes data from BSD-licensed dictionary of Polish (SGJP) (http://sgjp.pl/morfeusz/)

Servlet-api.jar and javax.servlet-*.jar are under the CDDL license, the original source code for this can be found at http://www.eclipse.org/jetty/downloads.php

===========================================================================
Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
===========================================================================

This software includes a binary and/or source version of data from

mecab-ipadic-2.7.0-20070801

which can be obtained from

http://atilika.com/releases/mecab-ipadic/mecab-ipadic-2.7.0-20070801.tar.gz

or

http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/mecab-ipadic-2.7.0-20070801.tar.gz

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OSXAdapter

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Version 3.1, 31 March 2009

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Alan Beale <biljir@pobox.com> also deserves special credit as he has, in addition to providing the 12Dicts package and being a major contributor to the ENABLE word list, given me an incredible amount of feedback and created a number of special lists (those found in the Supplement) in order to help improve the overall quality of SCOWL.

The 10 level includes the 1000 most common English words (according to the Moby (TM) Words II [MWords] package), a subset of the 1000 most common words on the Internet (again, according to Moby Words II), and frequently class 16 from Brian Kelk's "UK English Wordlist with Frequency Classification".

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Date: Sat, 08 Jul 2000 20:27:21 +0100
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The 60 level includes all words appearing in at least 2 of the 12 dictionaries as indicated by the 12Dicts package.

The 70 level includes Brian's frequency class 0 and the 74,550 common dictionary words from the MWords package. The common dictionary words, like those from the 12Dicts package, have had all likely inflections added. The 70 level also included the 5desk list from version 4.0 of the 12Dics package which is the public domain.

The 80 level includes the ENABLE word list, all the lists in the ENABLE supplement package (except for ABLE), the "UK Advanced Cryptics Dictionary" (UKACD), the list of signature words in from YAWL package,
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Protocol Buffers for Go with Gadgets

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1.59 findutils 4.6.0+git+20161106-2

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Debian maintainer history: The original package was put together by Ian Murdock <imurdock@debian.org>, afterwards Kevin Dalley <kevind@rahul.net> took over. 2003-07 Andreas Metzler <ametzler@debian.org> followed.

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* GNU xargs was originally written by Mike Rendell, with enhancements by David MacKenzie. Modifications by James Youngman Dmitry V. Levin

* GNU locate and its associated utilities were originally written by James Woods, with enhancements by David MacKenzie, James Youngman
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### 1.60 flannel 0.7.1

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// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
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    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}

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Extensions for Protocol Buffers to create more go like structures.

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http://github.com/gogo/protobuf/gogoproto

Go support for Protocol Buffers - Google's data interchange format

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PACKAGE

goa utoneg
import "bitbucket.org/ww/goautoneg"

HTTP Content-Type Autonegotiation.

The functions in this package implement the behaviour specified in
http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html

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FUNCTIONS

func Negotiate(header string, alternatives []string) (content_type string)
Negotiate the most appropriate content_type given the accept header
and a list of alternatives.

func ParseAccept(header string) (accept []Accept)
Parse an Accept Header string returning a sorted list
of clauses

TYPES

type Accept struct {
    Type, SubType string
    Q         float32
    Params    map[string]string
}
Structure to represent a clause in an HTTP Accept Header

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Go support for Protocol Buffers - Google's data interchange format

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@appendixsubsec Preamble

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#define __gnu_javax_sound_AudioSecurityManager$Permission__

#pragma interface

#include <java/lang/Enum.h>
#include <gcj/array.h>

extern "Java"
{
    namespace gnu
    {
        namespace javax
        {
            namespace sound
            {
                class AudioSecurityManager$Permission;
            }
        }
    }
}

class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
{
    AudioSecurityManager$Permission(::java::lang::String *, jint);

public:
    static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
    static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
    static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
    static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
    static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;

private:
    static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUM$VALUES;
}

#endif // __gnu_javax_sound_AudioSecurityManager$Permission__

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| java/security/Permission.java/lang/Object/java/security/Guard/java/io/Serializable
| serialVersionUID
| WQ
| String;
| <init>(Ljava/lang/String;)
| VCode
| LineNumberTable
| LocalVariableTable
| this
| java/security/Permission;
| checkGuard(Ljava/lang/Object;)
| V
| !
| java/lang/System
| &
| java/lang/SecurityManager
| !
| java/lang/SecurityManager
| checkPermission(Ljava/security/Permission;)
| Vobj
| java/lang/Object
| sm
| java/lang/SecurityManager
| implies(Ljava/security/Permission;)
| Zequals(Ljava/lang/Object;)
| ZhashCode(I
| getName(Ljava/lang/String;
| getActions
| newPermissionCollection()
| )
| java/security/PermissionCollection;
| toString
gnu/java/lang/CPStringBuilder;
| BCD
| getClass(Ljava/lang/Class;
| FHH
| java/lang/Class
| J?K
| Lgnu/java/lang/CPStringBuilder;
| JVM
| string
| gnu/java/lang/CPStringBuilder;
| H
| N65P
| RTS
| java/lang/String
| V95
| string
gnu/java/lang/CPStringBuilder;
| SourceFilePermission.java!
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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:";

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }
}
public boolean inMethod() {
    return true;
}

public boolean inOverview() {
    return true;
}

public boolean inPackage() {
    return true;
}

public boolean inType() {
    return true;
}

public boolean isInlineTag() {
    return false;
}

public static void register(Map tagletMap) {
    CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
    tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}

public String toString(Tag tag) {
    return toString(new Tag[] { tag });
}

public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    } else {
        boolean haveValidTag = false;
        for (int i = 0; i < tags.length && !haveValidTag; ++i) {
            if (tags[i].text().length() > 0) {
                haveValidTag = true;
            }
        }
        if (haveValidTag) {
            StringBuffer result = new StringBuffer();
            result.append("<dl>");
            for (int i = 0; i < tags.length; i++) {
                if (tags[i].text().length() > 0) {
                    result.append("<dt><i>Copyright &copy; " + tags[i].text() + "</i></dt>");
                }
            result.append("</dl>");
        } else {
            return null;
        }
    }
}


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this exception to your version of the library, but you are not
obligated to do so. If you do not wish to do so, delete this
exception statement from your version. */

package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 */
The most important method in this class is `implies()`. This checks whether if one has this permission, then the specified permission is also implied. As a conceptual example, consider the permissions "Read All Files" and "Read File foo". The permission "Read All Files" implies that the caller has permission to read the file foo.

`Permission`'s must be immutable - do not change their state after creation.

@author Aaron M. Renn (arenn@urbanophile.com)
@see Permissions
@see PermissionCollection
@since 1.1
@status updated to 1.4

```
public abstract class Permission implements Guard, Serializable {
    /**
     * This is the name assigned to this permission object.
     *
     * @serial the name of the permission
     */
    private String name;

    /**
     * Create an instance with the specified name.
     *
     * @param name the permission name
     */
    public Permission(String name) {
        this.name = name;
    }

    /**
     * This method implements the `Guard` interface for this class.
     * It calls the `checkPermission()` method in `SecurityManager` with this `Permission` as its argument. This method returns silently if the security check succeeds or throws an exception if it fails.
     *
     * @param obj the `Object` being guarded - ignored by this class
     */
```
@throws SecurityException if the security check fails
@see GuardedObject
@see SecurityManager#checkPermission(Permission)

```java
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}
```

/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 *
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */

```java
public abstract boolean implies(Permission perm);
```

/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather
 * than <code>equals</code>, when making access control decisions.
 *
 * @param obj the object to compare to
 */

```java
public abstract boolean equals(Object obj);
```

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 *
 * @return a hash value
 */

```java
public abstract int hashCode();
```

/**
 * Get the name of this <code>Permission</code>.
 *
 * @return the name
 */

```java
public final String getName()
{
    return name;
}
```
* This method returns the list of actions for this <code>Permission</code> as a <code>String</code>. The string should be in canonical order, for example, both <code>new FilePermission(f, "write,read")</code> and <code>new FilePermission(f, "read,write")</code> have the action list "read,write".

* @return the action list for this <code>Permission</code>

public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object that can store permissions of this type, or <code>null</code> if no such collection is defined. Subclasses must override this to provide an appropriate collection when one is needed to accurately calculate <code>implies</code>.

* @return a new <code>PermissionCollection</code>

public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this <code>Permission</code> object. This is in the format: 
* <code>'(' + getClass().getName() + ' ' + getName() + ' ' + getActions + ')'</code>.

* @return this object as a <code>String</code>

public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());
    if (!(getActions().equals("")))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }
    string = string.append(')');

    return string.toString();
}
return string.toString();
}
} // class Permission

/* Permission.java -- Information about an ACL permission
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package java.security.acl;

/**
 * This interface provides information about a permission that can be granted. Note that this is not the same as the class <code>java.security.Permission</code>.
 * @version 0.0
public interface Permission {
    /**
     * This method tests whether or not a specified <code>Permission</code>
     * (passed as an <code>Object</code>) is the same as this permission.
     * @param perm The permission to check for equality
     * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
     */
    boolean equals (Object perm);
}

/**
 * This method returns this <code>Permission</code> as a <code>String</code>.
 * @return A <code>String</code> representing this permission.
 */
String toString();
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/* Definitions for BSD assembler syntax for Intel 386  
   (actually AT&T syntax for insns and operands,  
   adapted to BSD conventions for symbol names and debugging.)  
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   along with GCC; see the file COPYING3.  If not see  
   <http://www.gnu.org/licenses/>.  */  */

/* Use the Sequent Symmetry assembler syntax. */  */

/* Define the syntax of pseudo-ops, labels and comments. */  */

/* Prefix for internally generated assembler labels. If we aren't using  
   underscores, we are using prefix `.'s to identify labels that should  
   be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */  */

#define ASM_BYTE	.byte	"t.byte\t"
#define ASM_SHORT	.word	"t.word\t"
#define ASM_LONG	.long	"t.long\t"
#define ASM_QUAD	.quad	"t.quad\t" /* Should not be used for 32bit compilation. */  */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS  
   #define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */  */

/* Define the syntax of labels and symbol definitions/declarations. */  */
/ * This is how to output an assembler line 
* that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE) \ 
fprintf (FILE, "\t.space \%u\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line 
* to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) \ 
(fputs (".comm ", (FILE)),\ 
 assemble_name ((FILE), (NAME)),\ 
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line 
* to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) \ 
(fputs (".lcomm ", (FILE)),\ 
 assemble_name ((FILE), (NAME)),\ 
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) \ 
(fputs (".lcomm ", (FILE)),\ 
 assemble_name ((FILE), (NAME)),\ 
 fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line 
* that says to advance the location counter 
* to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)	\ 
if ((LOG)!=0) fprintf ((FILE), "\t.align \%d\n", (LOG))

/* This is how to store into the string BUF 
* the symbol_ref name of an internal numbered label where 
* PREFIX is the class of label and NUM is the number within the class. 
* This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)\ 
sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */
/* Sequent has some changes in the format of DBX symbols. */
#define USER_LABEL_PREFIX "_

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

// DO NOT EDIT THIS FILE - it is machine generated -*-. c++ -*-.

#ifndef __java_security_Permission__
#define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
 namespace java
 {
 namespace security
 {
  class Permission;
  class PermissionCollection;
 }
 }
}

class java::security::Permission : public ::java::lang::Object
{

 public:
  Permission(::java::lang::String *);
  virtual void checkGuard(::java::lang::Object *
  virtual jboolean implies(::java::security::Permission * ) = 0;
  virtual jboolean equals(::java::lang::Object *) = 0;
  virtual jint hashCode() = 0;
  virtual ::java::lang::String * getName();
  virtual ::java::lang::String * getActions() = 0;
  virtual ::java::security::PermissionCollection * newPermissionCollection();
  virtual ::java::lang::String * toString();

 private:
  static const jlong serialVersionUID = -56365702221596674L;
  ::java::lang::String *__attribute__((aligned(__alignof__(::java::lang::Object)))) name;

 public:
  static ::java::lang::Class class$;
};
class java::security::acl::Permission : public ::java::lang::Object
{

public:
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual ::java::lang::String * toString() = 0;
    static ::java::lang::Class class$;
} __attribute__ ((java_interface));
a source language processor.

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Program       Directory
--------       --------
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" Automatically generated by Pod::Man 4.09 (Pod::Simple 3.35)
" Standard preamble:
" de Sp " Vertical space (when we can't use .PP)
  if t .sp .5v
Set up some character translations and predefined strings. \^(- will give an unbreakable dash, \^PI will give pi, \^L" will give a left double quote, and \^R" will give a right double quote. \^C+ will give a nicer C++. Capital omega is used to do unbreakable dashes and therefore won't be available. \^C' and \^C expand to '' in nroff, nothing in troff, for use with C<>.

\tr \^W-
\ds C+ C\^W-.1\^V\^l\^h\^l\^l-1p\^u-2+\^l\^h\^l\^l-1p\^s0\w\^l\^V\^l-1p'
\ie n \{\br
    ds -- \^W-
    ds PI pi
    if \((\n(.H=4u)\&(1m=24u)\) ds -- \^W\^h\^l-12u\((^W\^h\^l-12u\^v-\) della 10 pitch
    if \((\n(.H=4u)\&(1m=20u)\) ds -- \^W\^h\^l-12u\((^W\^h\^l-8u\^v-\) della 12 pitch
    ds L" "
    ds R" "
    ds C" "
    ds C" "
\}br\}
\ie n \{
    ds -- \^p\em
    ds PI \^p
    ds L" "
    ds R" "
    ds C'
    ds C'
\}br\}

\^Escape single quotes in literal strings from groff's Unicode transform.
\ie \n(.g .ds Aq \(aq
    .el .ds Aq '
\}a

\^If the F register is >0, we'll generate index entries on stderr for titles (.TH), headers (.SH), subsections (.SS), items (.Ip), and index entries marked with X<> in POD. Of course, you'll have to process the output yourself in some meaningful fashion.

\^Avoid warning from groff about undefined register 'F'.
For nroff, turn off justification. Always turn off hyphenation; it makes "way too many mistakes in technical documents.

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.PP
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This is an attempt to acknowledge early contributions to the garbage
collector. Later contributions should instead be mentioned in
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HISTORY -

Early versions of this collector were developed as a part of research
projects supported in part by the National Science Foundation
and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for
the Russell programming language implementation. The first version of the
garbage collector was written primarily by Al Demers. It was then refined
and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,
the University of Washington, Rice University (where it was first used for
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant
contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in
README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
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Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mit.rml.mit.edu), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(ags@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
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Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)

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DEALINGS IN THE SOFTWARE.
#!/usr/bin/python
#
# Copyright (C) 2013-2016 Free Software Foundation, Inc.
#
# This script is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)
# any later version.
#
# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
# Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
# update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
# update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess
class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            string = filename + ': ' + string
        sys.stderr.write(string + '\n')
        self.num_errors += 1

    def ok(self):
        return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set(['
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'depcomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'ltoptions.m4',
            'ltsh.m4',
            'ltversion.m4',
            'lt-obsolete.m4',
            'missing',

    

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def get_line_filter(self, dir, filename):
    if filename.startswith('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile(r'\t')
    return None

def skip_file(self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext(os.path.join(dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists(base + '.am'):
            return True
    # Skip files produced by autogen
    if (os.path.exists(base + '.def')
        and os.path.exists(base + '.tpl')):
        return True
    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists(base + '.ac'):
            return True
        if os.path.exists(base + '.in'):
            return True

'mkdep',
'mkinstalldirs',
'move-if-change',
'shlibpath.m4',
'symlink-tree',
'ylwrap',

# Skip FSF mission statement, etc.
'gnu.texi',
'funding.texi',
'appendix_free.xml',

# Skip imported texinfo files.
'texinfo.tex',

)
def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

        # Characters in a range of years. Include `.' for typos.
        ranges = '[0-9][?:-0-9,\s]\s*[\+and]*[0-9]'

        # Non-whitespace characters in a copyright holder's name.
        name = '\w+-'`

        # Matches one year.
        self.year_re = re.compile ('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + '|' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile (r'
            ([Cc]opyright
            \((?:[Cc])\)
            ![Cc]opyright.+\[(Cc)\])
            ![Cc]opyright,.s+,%s'
            ![Cc]opyright<s+&copy.'
            ![Cc]opyright<s+@copyright{ }'
            [copyright = ul']
            [@set<s+copyright[\w-]+')
            \s*\((?:; | +\?')
            \s*\('@value\(([^\s]+)\)\s*\)'}

        # 2: the years. Include the whitespace in the year, so that
        # we can remove any excess.
        '\ls+\(\s*\(\? +ranges +\?'\n        '\s*\('@value\(([^\s]+)\)\s*\)'
def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

    def parse_year (self, string):
        year = int (string)
if len(string) == 2:
    if year > 70:
        return year + 1900
elif len(string) == 4:
    return year
raise self.BadYear(string)

def year_range(self, years):
    year_list = [self.parse_year(year)
                 for year in self.year_re.findall(years)]
    assert len(year_list) > 0
    return (min(year_list), max(year_list))

def set_use_quilt(self, use_quilt):
    self.use_quilt = use_quilt

def include_year(self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years(self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith('@value '):
        return years
    (min_year, max_year) = self.year_range(years)
    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file(dir, filename):
        max_year = max(max_year, self.max_year)
    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder.endswith(')'))
or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join (dir, filename)

    intro = match.group (1)
    if intro.startswith ('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end (2):].strip()
        if after_years != "":
            self.errors.report (pathname,
                          'trailing characters in @set: ' + after_years)
            return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete (match):
            try:
                next_line = file.next()
            except StopIteration:
                break
            # If the next line doesn’t look like a proper continuation,
            # assume that what we’ve got is complete.
            continuation = self.strip_continuation (next_line)
            if not self.continuation_re.match (continuation):
                break

        # Merge the lines for matching purposes.
        orig_line += next_line
        line = line.rstrip() + ' ' + continuation
        next_line = None

        # Rematch with the longer line, at the original position.
        match = self.copyright_re.match (line, match.start())
        assert match

        holder = match.group (4)

        # Use the filter to test cases where markup is getting in the way.
        if filter.by_package_author (dir, filename):
            assert holder not in self.holders
        elif not holder:
            self.errors.report (pathname, 'missing copyright holder')
            return (False, orig_line, next_line)
elif holder not in self.holders:
    self.errors.report (pathname,
    'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)
    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
            + canon_form
            + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
        return (False, orig_line, next_line)
    line = (line[:match.start (2)]
            + ('' if intro.startswith ('copyright = ') else ' ')
            + canon_form + self.separator
            + line[match.end (2):])

    # Use the standard (C) form.
    if intro.endswith ('right'):
        intro += ' (C)'
    elif intro.endswith ('(c)'):
        intro = intro[:-3] + '(C)'
    line = line[:match.start (1)] + intro + line[match.end (1):]

    # Strip trailing whitespace
    line = line.rstrip() + '
'

    return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
if filename.endswith('.tmp'):
    # Looks like something we tried to create before.
    try:
        os.remove(pathname)
    except OSError:
        pass
    return

lines = []
changed = False
line_filter = filter.get_line_filter(dir, filename)
with open(pathname, 'r') as file:
    prev = None
    for line in file:
        while line:
            next_line = None
            # Leave filtered-out lines alone.
            if not (line_filter and line_filter.match(line)):
                match = self.copyright_re.search(line)
                if match:
                    res = self.update_copyright(dir, filename, filter,
                                                 file, line, match)
                    (this_changed, line, next_line) = res
                    changed = changed or this_changed
            # Check for copyright lines that might have slipped by.
            elif self.other_copyright_re.search(line):
                self.errors.report(pathname,
                                   'unrecognised copyright: %s'
                                   % line.strip())
                lines.append(line)
                line = next_line

            # If something changed, write the new file out.
            if changed and self.errors.ok():
                tmp_pathname = pathname + '.tmp'
                with open(tmp_pathname, 'w') as file:
                    for line in lines:
                        file.write(line)
                if self.use_quilt:
                    subprocess.call(['quilt', 'add', pathname])
                os.rename(tmp_pathname, pathname)

    def process_tree(self, tree, filter):
        for (dir, subdirs, filenames) in os.walk(tree):
            # Don't recurse through directories that should be skipped.
            for i in xrange(len(subdirs) - 1, -1, -1):
                if filter.skip_dir(dir, subdirs[i]):
del subdirs[i]

# Handle the files in this directory.
for filename in filenames:
    if filter.skip_file (dir, filename):
        sys.stdout.write ('Skipping %s

          % os.path.join (dir, filename))
    else:
        self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', '"quilt add" files before changing them',
            self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice',
            self.o_this_year)

    def add_option (self, name, help, handler):
        self.option_help.append ((name, help))
        self.option_handlers[name] = handler

    def add_dir (self, dir, filter = GenericFilter()):
        self.dirs.append ((dir, filter))

    def o_help (self, option = None):
        sys.stdout.write ('Usage: %s [options] dir1 dir2...

        Options:
        ' % sys.argv[0])
        format = '%-15s %s

        for (what, help) in self.option_help:
            sys.stdout.write (format % (what, help))
        sys.stdout.write ('n

        Directories:
        format = '%-25s'
        i = 0
        for (dir, filter) in self.dirs:
            i += 1
            if i % 3 == 0 or i == len (self.dirs):
                sys.stdout.write (dir + \n
            else:
sys.stdout.write (format % dir)
sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[:1] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join (chosen_dir, '')
                count = 0
                for (dir, filter) in self dirs:
                    if (dir + os.sep).startswith (canon_dir):
                        count += 1
                self.copyright.process_tree (dir, filter)
                if count == 0:
                    self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
                    sys.exit (0 if self.errors.ok() else 1)

#----------------------------------------------------------------------

class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
with open (pathname) as file:
    # Skip files imported from gettext.
    if file.readline().find ('gettext-') >= 0:
        return True
    return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ([
            # Not part of GCC
            'math-68881.h',
        ])

        self.skip_dirs |= set ([
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
        ])

        self.skip_extensions |= set ([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

        self.fossilised_files |= set ([
            # Old news won't be updated.
            'ONEWS',
        ])

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set ([
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
        )
'.f90',
'.go',
'.inc',
'.java',
]

```python
def skip_file (self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
        return True
    return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set ([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibJavaFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltdl',
        ])
```
class LibMudflapFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ("
            # Handled separately.
            'testsuite',
        ")

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ("
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ")

        self.skip_dirs |= set ("
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        ")

        self.own_files |= set ("
            # Contains markup around the copyright owner.
            'spine.xml',
        ")

    def get_line_filter (self, dir, filename):
        if filename == 'boost_concept_check.h':
            return re.compile ('// \(C\) Copyright Jeremy Siek')
        return GenericFilter.get_line_filter (self, dir, filename)
class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

    canon_fsf = 'Free Software Foundation, Inc.'
    self.add_package_author ('Free Software Foundation', canon_fsf)
    self.add_package_author ('Free Software Foundation.', canon_fsf)
    self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
    self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
    self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
    self.add_package_author ('The Free Software Foundation', canon_fsf)
    self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
    self.add_package_author ('Software Foundation, Inc.', canon_fsf)

    self.add_external_author ('ARM')
    self.add_external_author ('AdaCore')
    self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
    self.add_external_author ('Cavium Networks.')
    self.add_external_author ('Faraday Technology Corp.')
    self.add_external_author ('Florida State University')
    self.add_external_author ('Greg Colvin and Beman Dawes.')
    self.add_external_author ('Hewlett-Packard Company')
    self.add_external_author ('Information Technology Industry Council.')
    self.add_external_author ('James Theiler, Brian Gough')
    self.add_external_author ('Makoto Matsumoto and Takuji Nishimura,')
    self.add_external_author ('National Research Council of Canada.')
    self.add_external_author ('NVIDIA Corporation')
    self.add_external_author ('Peter Dimov and Multi Media Ltd.')
    self.add_external_author ('Peter Dimov')
    self.add_external_author ('Pipeline Associates, Inc.')
    self.add_external_author ('Regents of the University of California.')
    self.add_external_author ('Silicon Graphics Computer Systems, Inc.')
    self.add_external_author ('Silicon Graphics')
    self.add_external_author ('Stephen L. Moshier')
    self.add_external_author ('Sun Microsystems, Inc. All rights reserved.')
    self.add_external_author ('The Go Authors. All rights reserved.')
    self.add_external_author ('The Go Authors. All rights reserved.')
    self.add_external_author ('The Regents of the University of California.')
    self.add_external_author ('Unicode, Inc.')
    self.add_external_author ('University of Toronto.')

class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.

Open Source Used In Open Source Used In Managed Services Accelerator 3.5.1
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self.add_dir ('config', ConfigFilter())
# contrib isn't really part of GCC.
self.add_dir ('fixincludes')
self.add_dir ('gcc', GCCFilter())
self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
self.add_dir ('gnattools')
self.add_dir ('include')
self.add_dir ('libada')
self.add_dir ('libatomic')
self.add_dir ('libbacktrace')
self.add_dir ('libcpp', LibCppFilter())
self.add_dir ('libdecnumber')

# libffi is imported from upstream.
self.add_dir ('libgcc', LibGCCFilter())
self.add_dir ('libgfortran')
self.add_dir ('libgomp')
self.add_dir ('libiberty')
self.add_dir ('libitm')
self.add_dir ('libjava', LibJavaFilter())
self.add_dir (os.path.join ('libjava', 'testsuite'), TestsuiteFilter())
self.add_dir ('libmudflap', LibMudflapFilter())
self.add_dir (os.path.join ('libmudflap', 'testsuite'),
              TestsuiteFilter())
self.add_dir ('libobjc')
self.add_dir ('libquadmath')
# libsanitizer is imported from upstream.
self.add_dir ('libssp')
self.add_dir ('libstdc++-v3', LibStdCxxFilter())
self.add_dir ('libvtv')
self.add_dir ('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libiberty',
    'libitm',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
]
GCCCmdLine().main()
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By plainly marking modifications, something along the lines of adding to each file that has been changed a "Modified by Foo Bar" line underneath the "Written by" line would be adequate. This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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/* Definitions for BSD assembler syntax for Intel 386  
(actually AT&T syntax for insns and operands, 
adapted to BSD conventions for symbol names and debugging.) 
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along with GCC; see the file COPYING3. If not see 
<http://www.gnu.org/licenses/>. */ 

/* Use the Sequent Symmetry assembler syntax. */ 

/* Define the syntax of pseudo-ops, labels and comments. */ 

/* Prefix for internally generated assembler labels. If we aren't using 
underscores, we are using prefix `.'s to identify labels that should 
be ignored, as in `i386/gas.h' --karl@cs.umb.edu */ 

#define LPREFIX "L" 

/* Assembler pseudos to introduce constants of various size. */ 

#define ASM_BYTE "t.byte:t" 
#define ASM_SHORT "t.word:t" 
#define ASM_LONG "t.long:t" 
#define ASM_QUAD "t.quad:t" /* Should not be used for 32bit compilation. */ 

/* This was suggested, but it shouldn't be right for DBX output. -- RMS 
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */ 

/* Define the syntax of labels and symbol definitions/declarations. */ 

/* This is how to output an assembler line 
that says to advance the location counter by SIZE bytes. */ 

#define ASM_OUTPUT_SKIP(FILE,SIZE) \

fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  
  { 
    fputs ("\.comm ", (FILE)),
    assemble_name ((FILE), (NAME)),
    fprintf ((FILE), ",%u\n", (int)(ROUNDED))
  }

/* This says how to output an assembler line
to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  
  { 
    fputs ("\.lcomm ", (FILE)),
    assemble_name ((FILE), (NAME)),
    fprintf ((FILE), ",%u\n", (int)(ROUNDED))
  }

#if defined HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  
  { 
    fputs ("\.lcomm ", (FILE)),
    assemble_name ((FILE), (NAME)),
    fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT)
  }
#endif

/* This is how to output an assembler line
that says to advance the location counter
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)
  { 
    if ((LOG)!=0) fprintf ((FILE), \".align \%d\n\", (LOG))
  }

/* This is how to store into the string BUF
the symbol_ref name of an internal numbered label where
PREFIX is the class of label and NUM is the number within the class.
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)  
  { 
    sprintf ((BUF), \"*%s%ld\", (PREFIX), (long)(NUMBER))
  }

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1
/* Don’t split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

" Automatically generated by Pod::Man 4.09 (Pod::Simple 3.35)
"

" Standard preamble:
"
=======================================================================
.de Sp \ Vertical space (when we can’t use .PP)
.if t .sp 5v
.if n .sp
...
.de Vb \ Begin verbatim text
.ft CW
.nf
.ne \S1
...
.de Ve \ End verbatim text
.ft R
.fi
...
" Set up some character translations and predefined strings. \(--\) will
" give an unbreakable dash, \(PI\) will give pi, \(L"\) will give a left
" double quote, and \(R"\) will give a right double quote. \(C+\) will
" give a nicer C++. Capital omega is used to do unbreakable dashes and
" therefore won’t be available. \(C-\) and \(C’\) expand to ‘‘ in nroff,
" nothing in troff, for use with C<<.
.tr \(*W-
.ds C+ C\v’-.1\v’h’-1\p’s-2+\v’h’-1\p’+\v’s0\v’1\v’h’-1\p’
.ie n {\n    ds -- \(*W-
    ds PI pi
    if \(\n(H=4u)\&(1m=24u) .ds -- \(*W\h’-12\p’\(+\v’h’-12\p’+\v’s0\v’1\v’h’-1\p’
    .ie n \{|\n    . ds -- \(*W-
    . ds PI pi
    if \(\n(H=4u)\&(1m=20u) .ds -- \(*W\h’-12\p’\(+\v’h’-12\p’+\v’s0\v’1\v’h’-1\p’
    . ds L’ ‘‘
    . ds R’ ‘‘
    . ds C’ ‘‘
    . ds C’ ‘‘
’br\}
.eff |
 . ds -- \(|(em|}
 . ds PI \(*p
 . ds L’ ‘‘
 . ds R’ ‘‘
 . ds C’
 . ds C’
’br\}
"

" Escape single quotes in literal strings from groff’s Unicode transform.
If the F register is >0, we’ll generate index entries on stderr for titles (.TH), headers (.SH), subsections (.SS), items (.Ip), and index entries marked with X<> in POD. Of course, you’ll have to process the output yourself in some meaningful fashion.

Avoid warning from groff about undefined register ‘F’.

Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2). Fear. Run. Save yourself. No user-serviceable parts.

fudge factors for nroff and troff

simple accents for nroff and troff
IX Title "GPL 7"
.TH GPL 7 "2016-12-21" "gcc-6.3.0" "GNU"

For nroff, turn off justification. Always turn off hyphenation; it makes
way too many mistakes in technical documents.

.if n .ad 1
.nh
.SH "NAME"
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.IX Header "DESCRIPTION"
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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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This license, the Lesser General Public License, applies to some specially designated software—typically libraries—of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.
To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the Lesser General Public License because it does to protect the user's freedom than the ordinary General Public License. It also provides other free software developers of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

@iftex
@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
@end iftex
@ifinfo
@center GNU LESSER GENERAL PUBLIC LICENSE
@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
@end ifinfo

@enumerate 0
@item
This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

1. The modified work must itself be a software library.
2. You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
3. You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
4. If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.
@item
You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

@item
A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

@item
As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

@enumerate a
@item
Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

@item
Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

@item
Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

@item
If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the `work that uses the Library` must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

1. Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
2. Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

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impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

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SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.
@end enumerate

@end iftex
@end ifinfo
@page
@appendixsubsec How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
``copyright'' line and a pointer to where the full notice is found.

@smallexample
@var{one line to give the library's name and an idea of what it does.}
Copyright (C) @var{year}  @var{name of author}

This library is free software; you can redistribute it and/or modify it
under the terms of the GNU Lesser General Public License as published by
the Free Software Foundation; either version 2.1 of the License, or (at
your option) any later version.

This library is distributed in the hope that it will be useful, but
WITHOUT ANY WARRANTY; without even the implied warranty of
You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

Ty Coon, President of Vice

That's all there is to it!

#!/usr/bin/python
#
# Copyright (C) 2013-2016 Free Software Foundation, Inc.
#
# This script is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)
# any later version.
#
# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
#    Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
# update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
# update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            string = filename + ' : ' + string
        sys.stderr.write(string + '
')
        self.num_errors += 1

    def ok(self):
        return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set(
            # Skip licence files.
            )


def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\t')
    return None

# Skip auto- and libtool-related files
'aclocal.m4',
'compile',
'config.guess',
'config.sub',
'depcomp',
'install-sh',
'libtool.m4',
'ltmain.sh',
'ltoptions.m4',
'ltversion.m4',
'lt--obsolete.m4',
'missing',
'mkdep',
'mkinstalldirs',
'move-if-change',
'shlibpath.m4',
'symlink-tree',
'ylwrap',

# Skip FSF mission statement, etc.
'gnu.texi',
'funding.texi',
'appenix_free.xml',

# Skip imported texinfo files.
'texinfo.tex',
)

def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\t')
    return None
def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True

    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True

    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True

    # Skip files produced by autogen
    if (os.path.exists (base + '.def')
        and os.path.exists (base + '.tpl')):
        return True

    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists (base + '.ac'):
            return True
        if os.path.exists (base + '.in'):
            return True

    return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True

    # Only touch current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True

    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9]([-0-9,\s]*and\s+)*[0-9]'
# Non-whitespace characters in a copyright holder's name.
name = '[\w-.]*'

# Matches one year.
self.year_re = re.compile('[0-9]+')

# Matches part of a year or copyright holder.
self.continuation_re = re.compile(ranges + '|' + name)

# Matches a full copyright notice:
self.copyright_re = re.compile (  
    # 1: 'Copyright (C)', etc.
    '(?i)\[Cc\]opyright'  
    '[(Cc)opyrights+[(Cc)]]'  
    '[(Cc)opyrights+%s'  
    '[(Cc)opyrights+&copy:'  
    '[(Cc)opyrights+@copyright{ }]'  
    'copyright = u"'  
    '[@set[s]+copyright[\w-]+]')

# 2: the years. Include the whitespace in the year, so that
# we can remove any excess.
'(\s*\(?:' + ranges + ',?\)?'  
'[@value\{[^{}]*\})s*]')

# 3: 'by ', if used
'(by\s\+)?'

# 4: the copyright holder. Don't allow multiple consecutive
# spaces, so that right-margin gloss doesn't get caught
# (e.g. gnat_ugn.texi).
'(\ + name + '(?:\s?\ + name + \')\+)?')

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile ('copyright.*[0-9][0-9]',
    re.IGNORECASE)

self.comment_re = re.compile('#+|[*]+|;+|%+//+|@c |dnl ')  
self.holders = { '@copying': '@copying' }  
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None
# Goes after the year(s). Could be ', ,'.
self.separator = ','

def add_package_author(self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (',')
    while index >= 0:
        self.holder_prefixes.add (holder[index + 1])
        index = holder.find (',', index + 1)

def add_external_author(self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__(self, year):
        self.year = year

    def __str__(self):
        return 'unrecognised year: ' + self.year

def parse_year(self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
        elif len (string) == 4:
            return year
    raise self.BadYear (string)

def year_range(self, years):
    year_list = [self.parse_year (year)
                 for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt(self, use_quilt):
    self.use_quilt = use_quilt

def include_year(self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years(self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value'):
        return years
(min_year, max_year) = self.year_range (years)

# Update the upper bound, if enabled.
if self.max_year and not filter.is_fossilised_file (dir, filename):
    max_year = max (max_year, self.max_year)

# Use a range.
if min_year == max_year:
    return '%d' % min_year
else:
    return '%d-%d' % (min_year, max_year)

def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete (self, match):
    holder = match.group (4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join (dir, filename)

    intro = match.group (1)
    if intro.startswith ('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end (2):].strip()
        if after_years != ':
            self.errors.report (pathname,
                               'trailing characters in @set: ' + after_years)
        return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete (match):
            try:
                next_line = file.next()
            except StopIteration:
                break
# If the next line doesn't look like a proper continuation, 
# assume that what we've got is complete.
continuation = self.strip_continuation (next_line)
if not self.continuation_re.match (continuation):
    break

# Merge the lines for matching purposes.
orig_line += next_line
line = line.rstrip() + ' ' + continuation
next_line = None

# Rematch with the longer line, at the original position.
match = self.copyright_re.match (line, match.start())
assert match

holder = match.group (4)

# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author (dir, filename):
    assert holder not in self.holders

elif not holder:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report (pathname, 'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package 
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
            + canon_form
            + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
try:
canon_form = self.canonicalise_years (dir, filename, filter, years)

except self.BadYear as e:
    self.errors.report (pathname, str (e))
    return (False, orig_line, next_line)

line = (line[:match.start (2)]
    + ('' if intro.startswith ('copyright = ') else ' ') +
    canon_form + self.separator +
    line[match.end (2):])

    # Use the standard (C) form.
    if intro.endswith ('right'):
        intro += ' (C)'
    elif intro.endswith ('(c)'):
        intro = intro[:-3] + '(C)'
    line = line[:match.start (1)] + intro + line[match.end (1):]

    # Strip trailing whitespace
    line = line.rstrip() + '\n'

    return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
        return

    lines = []
    changed = False
    line_filter = filter.get_line_filter (dir, filename)
    with open (pathname, 'r') as file:
        prev = None
        for line in file:
            next_line = None
            # Leave filtered-out lines alone.
            if not (line_filter and line_filter.match (line)):
                match = self.copyright_re.search (line)
                if match:
                    res = self.update_copyright (dir, filename, filter,
                                                  file, line, match)
                    (this_changed, line, next_line) = res
                    changed = changed or this_changed

                    continue

# Check for copyright lines that might have slipped by.
elif self.other_copyright_re.search (line):
self.errors.report (pathname,
'unrecognised copyright: %s'
% line.strip())
lines.append (line)
line = next_line
# If something changed, write the new file out.
if changed and self.errors.ok():
tmp_pathname = pathname + '.tmp'
with open (tmp_pathname, 'w') as file:
for line in lines:
file.write (line)
if self.use_quilt:
subprocess.call (['quilt', 'add', pathname])
os.rename (tmp_pathname, pathname)
def process_tree (self, tree, filter):
for (dir, subdirs, filenames) in os.walk (tree):
# Don't recurse through directories that should be skipped.
for i in xrange (len (subdirs) - 1, -1, -1):
if filter.skip_dir (dir, subdirs[i]):
del subdirs[i]
# Handle the files in this directory.
for filename in filenames:
if filter.skip_file (dir, filename):
sys.stdout.write ('Skipping %s\n'
% os.path.join (dir, filename))
else:
self.process_file (dir, filename, filter)
class CmdLine:
def __init__ (self, copyright = Copyright):
self.errors = Errors()
self.copyright = copyright (self.errors)
self.dirs = []
self.default_dirs = []
self.chosen_dirs = []
self.option_handlers = dict()
self.option_help = []
self.add_option ('--help', 'Print this help', self.o_help)
self.add_option ('--quilt', '"quilt add" files before changing them',
self.o_quilt)
self.add_option ('--this-year', 'Add the current year to every notice',

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def add_option(self, name, help, handler):
    self.option_help.append((name, help))
    self.option_handlers[name] = handler

def add_dir(self, dir, filter=GenericFilter()):
    self.dirs.append((dir, filter))

def o_help(self, option=None):
    sys.stdout.write('Usage: %s [options] dir1 dir2...

' % sys.argv[0])
    format = '%-15s %s
'
    for (what, help) in self.option_help:
        sys.stdout.write(format % (what, help))
    sys.stdout.write('
Directories:
')
    format = '%-25s'
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len(self.dirs):
            sys.stdout.write(dir + '
')
        else:
            sys.stdout.write(format % dir)
    sys.exit(0)

def o_quilt(self, option):
    self.copyright.set_use_quilt(True)

def o_this_year(self, option):
    self.copyright.include_year(time.localtime().tm_year)

def main(self):
    for arg in sys.argv[1:]:
        if arg[0] != '-':
            self.chosen_dirs.append(arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg](arg)
        else:
            self.errors.report(None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len(self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len(self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
canon_dir = os.path.join (chosen_dir, '')
count = 0
for (dir, filter) in self.dirs:
    if (dir + os.sep).startswith (canon_dir):
        count += 1
        self.copyright.process_tree (dir, filter)
if count == 0:
    self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
    sys.exit (0 if self.errors.ok() else 1)

class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
    
    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
        return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set (['math-68881.h',])

        self.skip_dirs |= set ([
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
        ])

        self.skip_extensions |= set ([
            # Not part of GCC
            'math-68881.h',
        ])

        self.skip_dirs |= set ([
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
        ])

        self.skip_extensions |= set ([
            # Not part of GCC
            'math-68881.h',
        ])

        self.skip_dirs |= set ([
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
        ])

        self.skip_extensions |= set ([
            # Not part of GCC
            'math-68881.h',
        ])
# Maintained by the translation project.
'.po',

# Automatically-generated.
'.pot',
)

self.fossilised_files |= set (
    # Old news won't be updated.
    'ONEWS',
)

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set (
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
        )

    def skip_file (self, dir, filename):
        # g++.niklas/README contains historical copyright information
        # and isn't updated.
        if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
            return True
        return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set (
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        )
class LibGCCFilter (GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibJavaFilter (GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltdl',
        ])

def get_line_filter(self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile ('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile ('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter(self, dir, filename)

class LibMudflapFilter (GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Handled separately.
            'testsuite',
        ])

class LibStdCxxFilter (GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_files |= set([
            # Contains no copyright of its own, but quotes the GPL.
        ])

        self.skip_dirs |= set([
            # Handled separately.
            'testsuite',
        ])

class LibJavaFilter (GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltdl',
        ])

def get_line_filter(self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile ('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile ('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter(self, dir, filename)

class LibMudflapFilter (GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Handled separately.
            'testsuite',
        ])

class LibStdCxxFilter (GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_files |= set([
            # Contains no copyright of its own, but quotes the GPL.
        ])

        self.skip_dirs |= set([
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltdl',
        ])

def get_line_filter(self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile ('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile ('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter(self, dir, filename)
self.skip_dirs |= set([
    # Contains automatically-generated sources.
    'html',

    # The testsuite data files shouldn't be changed.
    'data',

    # Contains imported images
    'images',
    ])

self.own_files |= set([
    # Contains markup around the copyright owner.
    'spine.xml',
    ])

def get_line_filter (self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile ('// \(C\) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        super (GCCCopyright, self).__init__ (errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation', canon_fsf)
        self.add_package_author ('Free Software Foundation.', canon_fsf)
        self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('The Free Software Foundation', canon_fsf)
        self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('Software Foundation, Inc.', canon_fsf)

        self.add_external_author ('ARM')
        self.add_external_author ('AdaCore')
        self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author ('Cavium Networks.')
        self.add_external_author ('Faraday Technology Corp.')
        self.add_external_author ('Florida State University')
        self.add_external_author ('Greg Colvin and Beman Dawes.')
        self.add_external_author ('Hewlett-Packard Company')
        self.add_external_author ('Information Technology Industry Council.')
        self.add_external_author ('James Theiler, Brian Gough')
class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir ('fixincludes')
        self.add_dir ('gcc', GCCFilter())
        self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir ('gnattools')
        self.add_dir ('include')
        self.add_dir ('libada')
        self.add_dir ('libatomic')
        self.add_dir ('libbacktrace')
        self.add_dir ('libcpp', LibCppFilter())
        self.add_dir ('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir ('libgcc', LibGCCFilter())
        self.add_dir ('libgfortran')
        self.add_dir ('libgomp')
        self.add_dir ('libiberty')
        self.add_dir ('libitm')
        self.add_dir ('libjava', LibJavaFilter())
        self.add_dir (os.path.join ('libjava', 'testsuite'), TestsuiteFilter())
        self.add_dir ('libmudflap', LibMudflapFilter())
        self.add_dir (os.path.join ('libmudflap', 'testsuite'), TestsuiteFilter())
        self.add_dir ('libobjc')
self.add_dir('libquadmath')

# libsanitiser is imported from upstream.
self.add_dir('libssp')
self.add_dir('libstdc++-v3', LibStdCxxFilter())
self.add_dir('libvtv')

# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libitm',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
]

GCCCmdLine().main()

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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:";

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }
}
public boolean inConstructor() {
    return true;
}

public boolean inMethod() {
    return true;
}

public boolean inOverview() {
    return true;
}

public boolean inPackage() {
    return true;
}

public boolean inType() {
    return true;
}

public boolean isInlineTag() {
    return false;
}

public static void register(Map tagletMap) {
    CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
    tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}

public String toString(Tag tag) {
    return toString(new Tag[] { tag });
}

public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    }
    else {
        boolean haveValidTag = false;
        for (int i = 0; i < tags.length && !haveValidTag; ++i) {
            if (tags[i].text().length() > 0) {
                haveValidTag = true;
            }
        }
        if (haveValidTag) {
            StringBuffer result = new StringBuffer();
            result.append("<dl>");
            return result.toString();
        }
    }
}

if (haveValidTag) {
    StringBuffer result = new StringBuffer();
    result.append("<dl>");
    return result.toString();
}
for (int i = 0; i < tags.length; i++) {
    if (tags[i].text().length() > 0) {
        result.append("<dt><i>Copyright ©" + tags[i].text() + "</i></dt>");
    }
    result.append("</dl>");
    return result.toString();
} else {
    return null;
}
/* Permission.java -- The superclass for all permission objects

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 * 
 * <p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 * 
 * <p><code>Permission</code>'s must be immutable - do not change their
 * state after creation.
 * 
 * @author Aaron M. Renn (arenn@urbanophile.com)
 * @see Permissions
 * @see PermissionCollection
 * @since 1.1
 * @status updated to 1.4
 */
public abstract class Permission implements Guard, Serializable
{
    /**
     * Compatible with JDK 1.1+.
     */
    private static final long serialVersionUID = -5636570222231596674L;

    /**
     * This is the name assigned to this permission object.
     *
     * @serial the name of the permission
private String name;

/**
 * Create an instance with the specified name.
 *
 * @param name the permission name
 */
public Permission(String name)
{
    this.name = name;
}

/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in
 * <code>SecurityManager</code> with this <code>Permission</code> as its
 * argument. This method returns silently if the security check succeeds
 * or throws an exception if it fails.
 *
 * @param obj the <code>Object</code> being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 * @see GuardedObject
 * @see SecurityManager#checkPermission(Permission)
 */
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 *
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>equals</code>, rather
 * than <code>equals</code>, when making access control decisions.
 *
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);
public abstract int hashCode();

public final String getName()
{
    return name;
}

public abstract String getActions();

public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 *
 * @return a hash value
 */

/**
 * Get the name of this <code>Permission</code>.
 *
 * @return the name
 */

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 *
 * @return the action list for this <code>Permission</code>
 */

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 *
 * @return a new <code>PermissionCollection</code>
 */

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());

    if (!(getActions().equals("")))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }

    string = string.append(')');
    return string.toString();
}
} // class Permission

/* Permission.java -- Information about an ACL permission
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package java.security.acl;

/**
 * This interface provides information about a permission that can be granted. Note that this is <em>not</em> the same as the class <code>java.security.Permission</code>.
 * @version 0.0
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
public interface Permission {
  /**
   * This method tests whether or not a specified <code>Permission</code> (passed as an <code>Object</code>) is the same as this permission.
   *
   * @param perm The permission to check for equality
   *
   * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
   */
  boolean equals (Object perm);

  /**
   * This method returns this <code>Permission</code> as a <code>String</code>.
   *
   * @return A <code>String</code> representing this permission.
   */
  String toString();
}

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#ifndef __java_security_acl_Permission__
#define __java_security_acl_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{

namespace java
{
    namespace security
    {
        namespace acl
        {
            class Permission;
        }
    }
}

class java::security::acl::Permission : public ::java::lang::Object
{

public:

    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual ::java::lang::String * toString() = 0;
    static ::java::lang::Class class$;
} __attribute__ ((java_interface));

#if !defined(__java_security_acl_Permission__)

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#ifndef __java_security_Permission__
#define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
    namespace java
    {
        namespace security
        {
            class Permission;
            class PermissionCollection;
        }
    }
}

class java::security::Permission : public ::java::lang::Object
{

public:

    Permission(::java::lang::String *);

#endif // __java_security_Permission__
#endif // __java_security_acl_Permission__
virtual void checkGuard(::java::lang::Object *);
virtual jboolean implies(::java::security::Permission *) = 0;
virtual jboolean equals(::java::lang::Object *) = 0;
virtual jint hashCode() = 0;
virtual ::java::lang::String * getName();
virtual ::java::lang::String * getActions() = 0;
virtual ::java::security::PermissionCollection * newPermissionCollection();
virtual ::java::lang::String * toString();
private:
static const jlong serialVersionUID = -5636570222231596674LL;
::java::lang::String * __attribute__((aligned(__alignof__(::java::lang::Object)))) name;
public:
static ::java::lang::Class class$;
};

#endif // __java_security_Permission__

// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __gnu_javax_sound_AudioSecurityManager$Permission__
#define __gnu_javax_sound_AudioSecurityManager$Permission__

#pragma interface

#include <java/lang/Enum.h>
#include <gcj/array.h>

extern "Java"
{
namespace gnu
{
namespace java
{
namespace sound
{
    class AudioSecurityManager$Permission;
    }
}
}

class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
{
    AudioSecurityManager$Permission(::java::lang::String *, jint);
public:
    static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission *> * values();
    static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;
private:
    static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUM$VALUES;
public:
    static ::java::lang::Class class$;
};
#endif // __gnu_javax_sound_AudioSecurityManager$Permission__

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Version 2.1, February 1999

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major
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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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-*. org -*.

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#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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1.74 hostname 3.18+b1

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hostname -- set the host name or show the host/domain name

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* Software Development Group
* National Center for Supercomputing Applications
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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
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Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
Michael Campanella (campanella@stevms.enet.dec.com)

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Glenn Randers-Pehrson
glenmrp at users.sourceforge.net
January 5, 2017
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 */

package java.security;

/**
 * Abstract class for representing access to a system resource.
 * All permissions have a name (whose interpretation depends on the subclass),
 * as well as abstract functions for defining the semantics of the
public abstract class Permission implements Guard, java.io.Serializable {

    private static final long serialVersionUID = -5636570222231596674L;

    private String name;

    /**
     * Constructs a permission with the specified name.
     *
     * @param name name of the Permission object being created.
     *
     */
    public Permission(String name) {
        this.name = name;
    }

    @see Permissions
    @see PermissionCollection

    @author Marianne Mueller
    @author Roland Schemers
*/
/**
* Implements the guard interface for a permission. The
* [code SecurityManager.checkPermission] method is called,
* passing this permission object as the permission to check.
* Returns silently if access is granted. Otherwise, throws
* a SecurityException.
*
* @param object the object being guarded (currently ignored).
*
* @throws SecurityException
*   if a security manager exists and its
*   [code checkPermission] method doesn't allow access.
*
* @see Guard
* @see GuardedObject
* @see SecurityManager#checkPermission
*
*/
public void checkGuard(Object object) throws SecurityException {
    SecurityManager sm = System.getSecurityManager();
    if (sm != null) sm.checkPermission(this);
}

/**
* Checks if the specified permission's actions are "implied by"
* this object's actions.
* <P>
* This must be implemented by subclasses of Permission, as they are the
* only ones that can impose semantics on a Permission object.
* <p>The [code implies] method is used by the AccessController to determine
* whether or not a requested permission is implied by another permission that
* is known to be valid in the current execution context.
*
* @param permission the permission to check against.
* @return true if the specified permission is implied by this object,
* false if not.
*/
public abstract boolean implies(Permission permission);

/**
* Checks two Permission objects for equality.
* <P>
* Do not use the [code equals] method for making access control

* decisions; use the {code implies} method.
* @param obj the object we are testing for equality with this object.
* @return true if both Permission objects are equivalent.
*/

public abstract boolean equals(Object obj);

/**
 * Returns the hash code value for this Permission object.
 * <p>
 * The required {code hashCode} behavior for Permission Objects is
 * the following:
 * <ul>
 * <li>Whenever it is invoked on the same Permission object more than
 * once during an execution of a Java application, the
 * {code hashCode} method
 * must consistently return the same integer. This integer need not
 * remain consistent from one execution of an application to another
 * execution of the same application.
 * <li>If two Permission objects are equal according to the
 * {code equals} method, then calling the {code hashCode} method on each of the
 * two Permission objects must produce the same integer result.
 * </ul>
 * @return a hash code value for this object.
 */

public abstract int hashCode();

/**
 * Returns the name of this Permission.
 * For example, in the case of a {code java.io.FilePermission},
 * the name will be a pathname.
 * @return the name of this Permission.
 */

public final String getName() {
    return name;
}

/**
 * Returns the actions as a String. This is abstract
 * so subclasses can defer creating a String representation until
* one is needed. Subclasses should always return actions in what they
* consider to be their
* canonical form. For example, two FilePermission objects created via
* the following:
*
*<pre>
* perm1 = new FilePermission(p1,"read,write");
* perm2 = new FilePermission(p2,"write,read");
* </pre>
*
* both return
* "read,write" when the {@code getActions} method is invoked.
*
* @return the actions of this Permission.
*
*/

public abstract String getActions();

/**
* Returns an empty PermissionCollection for a given Permission object, or null if
* one is not defined. Subclasses of class Permission should
* override this if they need to store their permissions in a particular
* PermissionCollection object in order to provide the correct semantics
* when the {@code PermissionCollection.implies} method is called.
* If null is returned,
* then the caller of this method is free to store permissions of this
* type in any PermissionCollection they choose (one that uses a Hashtable,
* one that uses a Vector, etc).
*
* @return a new PermissionCollection object for this type of Permission, or
* null if one is not defined.
*/

public PermissionCollection newPermissionCollection() {
    return null;
}

/**
* Returns a string describing this Permission. The convention is to
* specify the class name, the permission name, and the actions in
* the following format: ("ClassName" "name" "actions"), or
* ("ClassName" "name") if actions list is null or empty.
*
* @return information about this Permission.
*/

public String toString() {
    String actions = getActions();
    return;
if ((actions == null) || (actions.length() == 0)) { // OPTIONAL
    return "\"" + getClass().getName() + "\"" + name + "\"");
} else {
    return "\"" + getClass().getName() + "\"" + name + "\"" + actions + "\"");
}

package java.security.acl;

/**
 * This interface represents a permission, such as that used to grant
 * a particular type of access to a resource.
 *
 * @author Satish Dharmaraj
 */
public interface Permission {

    /**
     * Returns true if the object passed matches the permission represented
     * in this interface.
     */
}
* @param another the Permission object to compare with.
* 
* @return true if the Permission objects are equal, false otherwise
*/
public boolean equals(Object another);

/**
 * Prints a string representation of this permission.
 *
 * @return the string representation of the permission.
 */
public String toString();
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# Version

# Uses Fedora Core 6 fonts and file paths.
version=1

# Component Font Mappings

dialog.plain.latin-1=DejaVu LGC Sans
dialog.plain.japanese-x0208=Sazanami Gothic
dialog.plain.korean=Baekmuk Gulim
dialog.plain.chinese-big5=AR PL ShanHeiSun Uni
dialog.plain.chinese-gb18030=AR PL ShanHeiSun Uni

dialog.bold.latin-1=DejaVu LGC Sans Bold
dialog.bold.japanese-x0208=Sazanami Gothic
dialog.bold.korean=Baekmuk Gulim
dialog.bold.chinese-big5=AR PL ShanHeiSun Uni
dialog.bold.chinese-gb18030=AR PL ShanHeiSun Uni

dialog.italic.latin-1=DejaVu LGC Sans Oblique
dialog.italic.japanese-x0208=Sazanami Gothic
dialog.italic.korean=Baekmuk Gulim
dialog.italic.chinese-big5=AR PL ShanHeiSun Uni
dialog.italic.chinese-gb18030=AR PL ShanHeiSun Uni

dialog.bolditalic.latin-1=DejaVu LGC Sans Bold Oblique
dialoginput.italic.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.italic.chinese-gb18030=AR PL ShanHeiSun Uni
dialoginput.bolditalic.latin-1=DejaVu LGC Sans Mono Bold Oblique
dialoginput.bolditalic.japanese-x0208=Sazanami Gothic
dialoginput.bolditalic.korean=Baekmuk Gulim
dialoginput.bolditalic.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.bolditalic.chinese-gb18030=AR PL ShanHeiSun Uni

# Search Sequences

sequence.allfonts=latin-1
sequence.allfonts.Big5=chinese-big5,latin-1
sequence.allfonts.x-euc-jp-bsd=japanese-x0208,latin-1
sequence.allfonts.EUC-KR=korean,latin-1
sequence.allfonts.GB18030=chinese-gb18030,latin-1
sequence.fallback=chinese-big5,chinese-gb18030,japanese-x0208,korean

# Font File Names

filename.DejaVu_LGC_Sans=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans.ttf
filename.DejaVu_LGC_Sans_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-Bold.ttf
filename.DejaVu_LGC_Sans_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-Oblique.ttf
filename.DejaVu_LGC_Sans_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-BoldOblique.ttf

filename.DejaVu_LGC_Sans_Mono=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono.ttf
filename.DejaVu_LGC_Sans_Mono_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-Bold.ttf
filename.DejaVu_LGC_Sans_Mono_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-Oblique.ttf
filename.DejaVu_LGC_Sans_Mono_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-BoldOblique.ttf

filename.DejaVu_LGC_Serif=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif.ttf
filename.DejaVu_LGC_Serif_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-Bold.ttf
filename.DejaVu_LGC_Serif_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-Oblique.ttf
filename.DejaVu_LGC_Serif_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-BoldOblique.ttf

filename.Sazanami_Gothic=/usr/share/fonts/japanese/TrueType/sazanami-gothic.ttf
filename.Sazanami_Mincho=/usr/share/fonts/japanese/TrueType/sazanami-mincho.ttf
filename.AR_PL_ShaneiSunUni=/usr/share/fonts/chinese/TrueType/uming.ttf
filename.AR_PL_ZenKai Uni=/usr/share/fonts/chinese/TrueType/ukai.ttf
filename.Baekmuk_Gulim=/usr/share/fonts/korean/TrueType/gulim.ttf
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*/

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import java.util.GregorianCalendar;
import java.util.Locale;
import java.util.TimeZone;

class CopyrightHeaders {
    private static final String ORACLE2012 =
        "/*
         * Copyright (c) %d, Oracle and/or its affiliates. All rights reserved.
         */
    ;

    private static final String ORACLE_AFTER2012 =
        "/*
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         */
    ;

    private static final String UNICODE =
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    int year = getYear();
    return String.format(year > 2012 ? ORACLE_AFTER2012 : ORACLE2012, year);
}

static String getUnicodeCopyright() {
    return UNICODE;
}

static String getOpenJDKCopyright() {
    int year = getYear();
    return String.format(year > 2012 ? OPENJDK_AFTER2012 : OPENJDK2012, year);
}
private static int getYear() {
    return new GregorianCalendar(TimeZone.getTimeZone("America/Los_Angeles"),
        Locale.US).get(Calendar.YEAR);
}

// no instantiation
private CopyrightHeaders() {
}

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import org.somewhere.ws.EchoRequest;
import org.somewhere.ws.EchoResponse;

public class CopyingResponse extends EchoResponse {

    public CopyingResponse() {}

    public CopyingResponse(EchoRequest request) {
        content = request.getContent();
    }
}

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*/
* questions.
*/

/**
 * import java.rmi.Remote;
 * public interface Legal extends Remote {
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 */

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# Version

# Uses Fedora Core 6 fonts and file paths.
version=1

# Component Font Mappings

dialog.plain.latin-1=DejaVu LGC Sans
dialog.plain.japanese-x0208=Sazanami Gothic
dialog.plain.korean=Baekmuk Gulim
dialog.plain.chinese-big5=AR PL ShanHeiSun Uni
dialog.plain.chinese-gb18030=AR PL ShanHeiSun Uni

dialog.bold.latin-1=DejaVu LGC Sans Bold
dialog.bold.japanese-x0208=Sazanami Gothic
dialog.bold.korean=Baekmuk Gulim
dialog.bold.chinese-big5=AR PL ShanHeiSun Uni
dialog.bold.chinese-gb18030=AR PL ShanHeiSun Uni
Open Source Used in Managed Services Accelerator 3.5.1

5186
dialoginput.bold,japanese-x0208=Sazanami Gothic
dialoginput.bold.korean=Baekmuk Gulim
dialoginput.bold.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.bold.chinese-gb18030=AR PL ShanHeiSun Uni

dialoginput.italic.latin-1=DejaVu LGC Sans Mono Oblique
dialoginput.italic.japanese-x0208=Sazanami Gothic
dialoginput.italic.korean=Baekmuk Gulim
dialoginput.italic.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.italic.chinese-gb18030=AR PL ShanHeiSun Uni

dialoginput.bolditalic.latin-1=DejaVu LGC Sans Mono Bold Oblique
dialoginput.bolditalic.japanese-x0208=Sazanami Gothic
dialoginput.bolditalic.korean=Baekmuk Gulim
dialoginput.bolditalic.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.bolditalic.chinese-gb18030=AR PL ShanHeiSun Uni

# Search Sequences

sequence.allfonts=latin-1
sequence.allfonts.Big5=chinese-big5,latin-1
sequence.allfonts.x-euc-jp-bsd=japanese-x0208,latin-1
sequence.allfonts.EUC-KR=korean,latin-1
sequence.allfonts.GB18030=chinese-gb18030,latin-1
sequence.fallback=chinese-big5,chinese-gb18030,japanese-x0208,korean

# Font File Names

filename.DejaVu_LGC_Sans=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans.ttf
filename.DejaVu_LGC_Sans_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-Bold.ttf
filename.DejaVu_LGC_Sans_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-Oblique.ttf
filename.DejaVu_LGC_Sans_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-BoldOblique.ttf
filename.DejaVu_LGC_Sans_Mono=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono.ttf
filename.DejaVu_LGC_Sans_Mono_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-Bold.ttf
filename.DejaVu_LGC_Sans_Mono_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-Oblique.ttf
filename.DejaVu_LGC_Sans_Mono_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-BoldOblique.ttf
filename.DejaVu_LGC_Serif=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif.ttf
filename.DejaVu_LGC_Serif_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-Bold.ttf
filename.DejaVu_LGC_Serif_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-Oblique.ttf
filename.DejaVu_LGC_Serif_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-BoldOblique.ttf
filename.Sazanami_Gothic=/usr/share/fonts/japanese/TrueType/sazanami-gothic.ttf
filename.Sazanami_Mincho=/usr/share/fonts/japanese/TrueType/sazanami-mincho.ttf
filename.AR_PL_ShankHeiSun_Uni=/usr/share/fonts/chinese/TrueType/uming.ttf
filename.AR_PL_ZenKai_Uni=/usr/share/fonts/chinese/TrueType/ukai.ttf
filename.Baekmuk_Gulim=/usr/share/fonts/korean/TrueType/gulim.ttf
filename.Baekmuk_Batang=/usr/share/fonts/korean/TrueType/batang.ttf

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 */

package build.tools.cldrconverter;

import java.util.Calendar;
import java.util.GregorianCalendar;
import java.util.Locale;
import java.util.TimeZone;

class CopyrightHeaders {
    private static final String ORACLE2012 =
        "/*\n" +
        " * Copyright (c) %d, Oracle and/or its affiliates. All rights reserved.\n" +
        " *\n";

    private static final String ORACLE_AFTER2012 =
        "/*\n" +
        " * Copyright (c) 2012, %d, Oracle and/or its affiliates. All rights reserved.\n" +
        " *\n";

    private static final String UNICODE =
        "/*\n" +
        " * COPYRIGHT AND PERMISSION NOTICE\n" +
        " */\n";
}
private static String OPENJDK_AFTER2012 =
"/*
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 */
";

static String getOracleCopyright() {
    int year = getYear();
    return String.format(year > 2012 ? ORACLE_AFTER2012 : ORACLE2012, year);
}

static String getUnicodeCopyright() {
return UNICODE;
}

static String getOpenJDKCopyright() {
    int year = getYear();
    return String.format(year > 2012 ? OPENJDK_AFTER2012 : OPENJDK2012, year);
}

private static int getYear() {
    return new GregorianCalendar(TimeZone.getTimeZone("America/Los_Angeles"), Locale.US).get(Calendar.YEAR);
}

// no instantiation
private CopyrightHeaders() {
}
}

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import org.somewhere.ws.EchoResponse;

public class CopyingResponse extends EchoResponse {

    public CopyingResponse() {} 

    public CopyingResponse(EchoRequest request) {
        content = request.getContent();
    }
}

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 */
package java.security;

/**
 * Abstract class for representing access to a system resource.
 * All permissions have a name (whose interpretation depends on the subclass),
 * as well as abstract functions for defining the semantics of the
 * particular Permission subclass.
 *
 * <p>Most Permission objects also include an "actions" list that tells the actions
 * that are permitted for the object. For example,
 * for a {@code java.io.FilePermission} object, the permission name is
 * the pathname of a file (or directory), and the actions list
 * (such as "read, write") specifies which actions are granted for the
 * specified file (or for files in the specified directory).
 * The actions list is optional for Permission objects, such as
 * [{@code java.lang.RuntimePermission}],
 * that don't need such a list; you either have the named permission (such
 * as "system.exit") or you don't.
 *
 * <p>An important method that must be implemented by each subclass is
 * the {@code implies} method to compare Permissions. Basically,
 * "permission p1 implies permission p2" means that
 * if one is granted permission p1, one is naturally granted permission p2.
 * Thus, this is not an equality test, but rather more of a
 * subset test.
 *
 * <p>Permission objects are similar to String objects in that they
 * are immutable once they have been created. Subclasses should not
 * provide methods that can change the state of a permission
 * once it has been created.
 *
 * @see Permissions
 * @see PermissionCollection
 *
 * @author Marianne Mueller
 * @author Roland Schemers
 */

public abstract class Permission implements Guard, java.io.Serializable {

    private static final long serialVersionUID = -5636570222231596674L;

    public abstract class Permission implements Guard, java.io.Serializable {

        private static final long serialVersionUID = -5636570222231596674L;
private String name;

/**
 * Constructs a permission with the specified name.
 * @param name name of the Permission object being created.
 */
public Permission(String name) {
    this.name = name;
}

/**
 * Implements the guard interface for a permission. The
 * SecurityManager.checkPermission method is called,
 * passing this permission object as the permission to check.
 * Returns silently if access is granted. Otherwise, throws
 * a SecurityException.
 * @param object the object being guarded (currently ignored).
 * @throws SecurityException if a security manager exists and its
 *     checkPermission method doesn't allow access.
 * @see Guard
 * @see GuardedObject
 * @see SecurityManager#checkPermission
 */
public void checkGuard(Object object) throws SecurityException {
    SecurityManager sm = System.getSecurityManager();
    if (sm != null) sm.checkPermission(this);
}

/**
 * Checks if the specified permission's actions are "implied by"
 * this object's actions.
 * This must be implemented by subclasses of Permission, as they are the
 * only ones that can impose semantics on a Permission object.
 * @param permission the permission to check against.
 * @see implies
 */
public boolean implies(Permission permission) {
    // Implementation
    return true;  // Example implementation
}

/**
 * The implies method is used by the AccessController to determine
 * whether or not a requested permission is implied by another permission that
 * is known to be valid in the current execution context.
 * @param permission the permission to check against.
 * @param request the permission being requested.
 */
public boolean check(int permission, int request) throws SecurityException {
    // Implementation
    return true;  // Example implementation
}
public abstract boolean implies(Permission permission);

/**
 * Checks two Permission objects for equality.
 * <p>
 * Do not use the {@code equals} method for making access control decisions; use the
 * {@code implies} method.
 * <p>
 * @param obj the object we are testing for equality with this object.
 * <p>
 * @return true if both Permission objects are equivalent.
 */

public abstract boolean equals(Object obj);

/**
 * Returns the hash code value for this Permission object.
 * <p>
 * The required behavior for Permission Objects is the following:
 * <ul>
 * <li>Whenever it is invoked on the same Permission object more than once during an execution of a Java application, the
 * @code hashCode method must consistently return the same integer. This integer need not remain consistent from one execution of an application to another execution of the same application.
 * <li>If two Permission objects are equal according to the
 * @code equals method, then calling the @code hashCode method on each of the two Permission objects must produce the same integer result.
 * </ul>
 * <p>
 * @return a hash code value for this object.
 */

public abstract int hashCode();

/**
 * Returns the name of this Permission.
 * For example, in the case of a @code java.io.FilePermission, the name will be a pathname.
 */
* @return the name of this Permission.
*  
* /

class Permission {
    String name;

    public final String getName() {
        return name;
    }

    /**<
     * Returns the actions as a String. This is abstract
     * so subclasses can defer creating a String representation until
     * one is needed. Subclasses should always return actions in what they
     * consider to be their
     * canonical form. For example, two FilePermission objects created via
     * the following:
     *
     * <pre>
     * perm1 = new FilePermission(p1,"read,write");
     * perm2 = new FilePermission(p2,"write,read");
     * </pre>
     *
     * both return
     * "read,write" when the { @code getActions} method is invoked.
     *
     * @return the actions of this Permission.
     *
     */

    public abstract String getActions();

    /**<
     * Returns an empty PermissionCollection for a given Permission object, or null if
     * one is not defined. Subclasses of class Permission should
     * override this if they need to store their permissions in a particular
     * PermissionCollection object in order to provide the correct semantics
     * when the { @code PermissionCollection.implies} method is called.
     * If null is returned,
     * then the caller of this method is free to store permissions of this
     * type in any PermissionCollection they choose (one that uses a Hashtable,
     * one that uses a Vector, etc).
     *
     * @return a new PermissionCollection object for this type of Permission, or
     * null if one is not defined.
     */

    public PermissionCollection newPermissionCollection() {
        return null;
    }
}
/**
 * Returns a string describing this Permission. The convention is to
 * specify the class name, the permission name, and the actions in
 * the following format: ('ClassName' "name" "actions"), or
 * ('ClassName' "name") if actions list is null or empty.
 *
 * @return information about this Permission.
 */

public String toString() {
    String actions = getActions();
    if ((actions == null) || (actions.length() == 0)) { // OPTIONAL
        return "(" + getClass().getName() + " " + name + ")";
    } else {
        return "(" + getClass().getName() + " " + name + " " + actions + ")";
    }
}

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goproperties - properties file decoder for Go

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package main

import ( 
    "strings"
)

// LicenseFilePrefix is a list of filename prefixes that indicate it
// might contain a software license
var LicenseFilePrefix = []string{
    "licence", // UK spelling
    "license", // US spelling
    "copying",
    "unlicense",
    "copyright",
    "copyleft",
    "authors",
    "contributors",

// LegalFileSubstring are substrings that indicate the file is likely
// to contain some type of legal declaration. "legal" is often used
// that it might moved to LicenseFilePrefix
var LegalFileSubstring = []string{
    "legal",
    "notice",
    "disclaimer",
    "patent",
    "third-party",
    "thirdparty",
}

// IsLicenseFile returns true if the filename might be contain a
// software license
func IsLicenseFile(filename string) bool {
    lowerfile := strings.ToLower(filename)
    for _, prefix := range LicenseFilePrefix {
        if strings.HasPrefix(lowerfile, prefix) {
            return true
        }
    }
    return false
}

// IsLegalFile returns true if the file is likely to contain some type
// of of legal declaration or licensing information
func IsLegalFile(filename string) bool {
    lowerfile := strings.ToLower(filename)
    for _, prefix := range LicenseFilePrefix {
        if strings.HasPrefix(lowerfile, prefix) {
            return true
        }
    }
    for _, substring := range LegalFileSubstring {
        if strings.Index(lowerfile, substring) != -1 {
            return true
        }
    }
    return false
}

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// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

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package simulator

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name: "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {Key: "feature",
         Value: types.KeyValue{
             Key:   "serialuri:2",
             Value: "Remote virtual Serial Port Concentrator",
         }},
        {Key: "feature",
         Value: types.KeyValue{
             Key:   "dvs",
             Value: "vSphere Distributed Switch",
         }},
    }
}

type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{
        Self = ref
        Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}
    }
    if Map.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{ }).Reference()
        m.LicenseAssignmentManager = &am
    }
    return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{}
    }
    for _, license := range m.Licenses {
if license.LicenseKey == req.LicenseKey {
    body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
    return body
}

m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
    LicenseKey: req.LicenseKey,
    Labels: req.Labels,
})

body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)
return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{},
    }

    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...)
            return body
        }
    }

    return body
}

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{},
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid {
            id := types.ManagedObjectReference{
                Type: "HostSystem",
                Value: req.EntityId,
            }
        }
    }
}
if Map.Get(id) == nil {
  return body
}
}
}

body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
  {
    EntityId: req.EntityId,
    AssignedLicense: EvalLicense,
  },
}

return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
  info := EvalLicense

  info.LicenseKey = key
  info.Labels = labels

  return info
}

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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```
package goautoneg

import "bitbucket.org/ww/goautoneg"

HTTP Content-Type Autonegotiation.

The functions in this package implement the behaviour specified in http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html

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FUNCTIONS

func Negotiate(header string, alternatives []string) (content_type string)
Negotiate the most appropriate content_type given the accept header and a list of alternatives.

func ParseAccept(header string) (accept []Accept)
Parse an Accept Header string returning a sorted list of clauses

TYPES

type Accept struct {
    Type, SubType string
    Q        float32
    Params   map[string]string
}
Structure to represent a clause in an HTTP Accept Header

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import (    "strings"
)

// LicenseFilePrefix is a list of filename prefixes that indicate it might contain a software license    var LicenseFilePrefix = []string{        "licence", // UK spelling        "license", // US spelling        "copying",        "unlicense",        "copyright",        "copyleft",        "authors",        "contributors",    }

// LegalFileSubstring are substrings that indicate the file is likely to contain some type of legal declaration. "legal" is often used that it might moved to LicenseFilePrefix
var LegalFileSubstring = []string{    "legal",    "notice",    "disclaimer",    "patent",    "third-party",    "thirdparty",    }
func IsLicenseFile(filename string) bool {
    lowerfile := strings.ToLower(filename)
    for _, prefix := range LicenseFilePrefix {
        if strings.HasPrefix(lowerfile, prefix) {
            return true
        }
    }
    return false
}

func IsLegalFile(filename string) bool {
    lowerfile := strings.ToLower(filename)
    for _, prefix := range LicenseFilePrefix {
        if strings.HasPrefix(lowerfile, prefix) {
            return true
        }
    }
    for _, substring := range LegalFileSubstring {
        if strings.Index(lowerfile, substring) != -1 {
            return true
        }
    }
    return false
}

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package simulator

import (
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name: "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "serialuri:2",
                Value: "Remote virtual Serial Port Concentrator",
            }},
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "dvs",
                Value: "vSphere Distributed Switch",
            }},
    }
}

type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{
    m.Self = ref
    m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}
if Map.IsVPX() {
    am := Map.Put(&LicenseAssignmentManager{}).Reference()
    m.LicenseAssignmentManager = &am
}

return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{},
    }
    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }
    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels:    req.Labels,
    })
    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)
    return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{},
    }
    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...)  
            return body
        }
    }
    return body
}

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}
func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault
{
    body := &methods.QueryAssignedLicensesBody{
    Res: &types.QueryAssignedLicensesResponse{ },
}

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId == "" {
        if req.EntityId != Map.content().About.InstanceUuid {
            id := types.ManagedObjectReference{
                Type: "HostSystem",
                Value: req.EntityId,
            }

            if Map.Get(id) == nil {
                body
            }
        }
    }

    body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
        {
            EntityId: req.EntityId,
            AssignedLicense: EvalLicense,
        },
    }

    return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo { info := EvalLicense

    info.LicenseKey = key
    info.Labels = labels

    return info
}

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goproperties - properties file decoder for Go

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package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name  string `json:"name,omitempty"
    URL   string `json:"url,omitempty"
}

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Protocol Buffers for Go with Gadgets

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Go support for Protocol Buffers - Google's data interchange format

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PACKAGE

package goautoneg
import "bitbucket.org/ww/goautoneg"

HTTP Content-Type Autonegotiation.

The functions in this package implement the behaviour specified in http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html

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FUNCTIONS

func Negotiate(header string, alternatives []string) (content_type string)
Negotiate the most appropriate content_type given the accept header
and a list of alternatives.

func ParseAccept(header string) (accept []Accept)
Parse an Accept Header string returning a sorted list
of clauses

TYPES

type Accept struct {
    Type, SubType string
    Q float32
    Params map[string]string
}
Structure to represent a clause in an HTTP Accept Header

SUBDIRECTORIES

.hg

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1.91 kernel 3.10.0 :957.1.3.el7

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for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

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            strcmp(license, "GPL v2") == 0 |
            strcmp(license, "GPL and additional rights") == 0 |
            strcmp(license, "Dual BSD/GPL") == 0 |
            strcmp(license, "Dual MIT/GPL") == 0 |
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}
#endif

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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
*interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
*and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
*loss of link, and correctly re-enable PHY when link is
*re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
buffers. This is done by 2 things:
  1) skb->destructor / skb->atm.recycle_buffer
     combined, allow nicstar_free_rx_skb to be called to
     recycle large data buffers
  2) skb_clone of received buffers
See nicstar_free_rx_skb and linearize_buffer for implementation

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M. Welsh, 6 July 1996

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 */

import { get } from 'lodash';

/***/

/**
 * "View" for XPack Info license information.
 */

export class XPackInfoLicense {
   /**
    * Function that retrieves license information from the XPack info object.
    * @type {Function}
    * @private
    */
    _getRawLicense = null;

    constructor(getRawLicense) {
        this._getRawLicense = getRawLicense;
    }

    /**
     * Returns unique identifier of the license.
     * @returns {string|undefined}
     */
    getUid() {
        return get(this._getRawLicense(), 'uid');
    }
```
/**
 * Indicates whether license is still active.
 * @returns {boolean}
 */
isActive() {
    return get(this._getRawLicense(), 'status') === 'active';
}

/**
 * Returns license expiration date in ms.
 * Note: A basic license created after 6.3 will have no expiration, thus returning undefined.
 * @returns {number|undefined}
 */
getExpiryDateInMillis() {
    return get(this._getRawLicense(), 'expiry_date_in_millis');
}

/**
 * Checks if the license is represented in a specified license list.
 * @param {String} candidateLicenses List of the licenses to check against.
 * @returns {boolean}
 */
isOneOf(candidateLicenses) {
    if (!Array.isArray(candidateLicenses)) {
        candidateLicenses = [candidateLicenses];
    }

    return candidateLicenses.includes(get(this._getRawLicense(), 'mode'));
}

/**
 * Returns type of the license (basic, gold etc.).
 * @returns {string|undefined}
 */
getType() {
    return get(this._getRawLicense(), 'type');
}

/**
 * Returns mode of the license (basic, gold etc.). This is the "effective" type of the license.
 * @returns {string|undefined}
 */
getMode() {
    return get(this._getRawLicense(), 'mode');
}
/**
 * Determine if the current license is active and the supplied `@code type`.
 * @param {Function} typeChecker The license type checker.
 * @returns {boolean}
 */
isActiveLicense(typeChecker) {
  const license = this._getRawLicense();

  return get(license, 'status') === 'active' && typeChecker(get(license, 'mode'));
}

/**
 * Determine if the license is an active, basic license.
 * @returns {boolean}
 */
isBasic() {
  return this.isActiveLicense(mode => mode === 'basic');
}

/**
 * Determine if the license is an active, non-basic license (e.g., standard, gold, platinum, or trial).
 * @returns {boolean}
 */
isNotBasic() {
  return this.isActiveLicense(mode => mode !== 'basic');
}

import { XPackInfoLicense } from './xpack_info_license';

function getXPackInfoLicense(getRawLicense) {
  return new XPackInfoLicense(getRawLicense);
}
describe('XPackInfoLicense', () => {

    const xpackInfoLicenseUndefined = getXPackInfoLicense(() => { });
    let xpackInfoLicense;
    let getRawLicense;

    beforeEach(() => {
        getRawLicense = jest.fn();
        xpackInfoLicense = getXPackInfoLicense(getRawLicense);
    });

    test('getUid returns uid field', () => {
        const uid = 'abc123';

        getRawLicense.mockReturnValue({ uid });
        expect(xpackInfoLicense.getUid()).toBe(uid);
        expect(getRawLicense).toHaveBeenCalledTimes(1);
        expect(xpackInfoLicenseUndefined.getUid()).toBe(undefined);
    });

    test('isActive returns true if status is active', () => {
        getRawLicense.mockReturnValue({ status: 'active' });
        expect(xpackInfoLicense.isActive()).toBe(true);
        expect(getRawLicense).toHaveBeenCalledTimes(1);
        expect(xpackInfoLicenseUndefined.isActive()).toBe(false);
    });

    test('isActive returns false if status is not active', () => {
        getRawLicense.mockReturnValue({ status: 'aCtIvE' }); // needs to match exactly
        expect(xpackInfoLicense.isActive()).toBe(false);
        expect(getRawLicense).toHaveBeenCalledTimes(1);
    });

    test('getExpiryDateInMillis returns expiry_date_in_millis', () => {
        getRawLicense.mockReturnValue({ expiry_date_in_millis: 123 });
        expect(xpackInfoLicense.getExpiryDateInMillis()).toBe(123);
        expect(getRawLicense).toHaveBeenCalledTimes(1);
        expect(xpackInfoLicenseUndefined.getExpiryDateInMillis()).toBe(undefined);
    });

    test('isOneOf returns true of the mode includes one of the types', () => {

        getRawLicense.mockReturnValue({});
        expect(xpackInfoLicense.isOneOf({})).toBe(true);
        expect(getRawLicense).toHaveBeenCalledTimes(1);
        expect(xpackInfoLicenseUndefined.isOneOf({})).toBe(false);
    });

});
getRawLicense.mockReturnValue({ mode: 'platinum' });

expect(xpackInfoLicense.isOneOf('platinum')).toBe(true);
expect(getRawLicense).toHaveBeenCalledTimes(1);

expect(xpackInfoLicense.isOneOf(['platinum'])).toBe(true);
expect(getRawLicense).toHaveBeenCalledTimes(2);
expect(xpackInfoLicense.isOneOf(['gold', 'platinum'])).toBe(true);
expect(getRawLicense).toHaveBeenCalledTimes(3);
expect(xpackInfoLicense.isOneOf(['platinum', 'gold'])).toBe(true);
expect(getRawLicense).toHaveBeenCalledTimes(4);
expect(xpackInfoLicense.isOneOf(['basic', 'gold'])).toBe(false);
expect(getRawLicense).toHaveBeenCalledTimes(5);
expect(xpackInfoLicense.isOneOf(['basic'])).toBe(false);
expect(getRawLicense).toHaveBeenCalledTimes(6);

expect(xpackInfoLicenseUndefined.isOneOf(['platinum', 'gold'])).toBe(false);

});

test('getType returns the type', () => {
  getRawLicense.mockReturnValue({ type: 'basic' });

  expect(xpackInfoLicense.getType()).toBe('basic');
  expect(getRawLicense).toHaveBeenCalledTimes(1);

  getRawLicense.mockReturnValue({ type: 'gold' });

  expect(xpackInfoLicenseundefined.getType()).toBe(undefined);
});

test('getMode returns the mode', () => {
  getRawLicense.mockReturnValue({ mode: 'basic' });

  expect(xpackInfoLicense.getMode()).toBe('basic');
  expect(getRawLicense).toHaveBeenCalledTimes(1);

  getRawLicense.mockReturnValue({ mode: 'gold' });

  expect(xpackInfoLicenseUndefined.getMode()).toBe(undefined);
});

test('isActiveLicense returns the true if active and typeChecker matches', () => {
const expectAbc123 = type => type === 'abc123';

getRawLicense.mockReturnValue({ status: 'active', mode: 'abc123' });
expect(xpackInfoLicense.isActiveLicense(expectAbc123)).toBe(true);
expect(getRawLicense).toHaveBeenCalledTimes(1);

getRawLicense.mockReturnValue({ status: 'NOTactive', mode: 'abc123' });
expect(xpackInfoLicense.isActiveLicense(expectAbc123)).toBe(false);
expect(getRawLicense).toHaveBeenCalledTimes(2);

getRawLicense.mockReturnValue({ status: 'NOTactive', mode: 'NOTabc123' });
expect(xpackInfoLicense.isActiveLicense(expectAbc123)).toBe(false);
expect(getRawLicense).toHaveBeenCalledTimes(3);

getRawLicense.mockReturnValue({ status: 'active', mode: 'NOTabc123' });
expect(xpackInfoLicense.isActiveLicense(expectAbc123)).toBe(false);
expect(getRawLicense).toHaveBeenCalledTimes(4);

expect(xpackInfoLicenseUndefined.isActive(expectAbc123)).toBe(false);

}));

test('isBasic returns the true if active and basic', () => {
  getRawLicense.mockReturnValue({ status: 'active', mode: 'basic' });

  expect(xpackInfoLicense.isBasic()).toBe(true);
  expect(getRawLicense).toHaveBeenCalledTimes(1);

  getRawLicense.mockReturnValue({ status: 'NOTactive', mode: 'gold' });

  expect(xpackInfoLicense.isBasic()).toBe(false);
  expect(getRawLicense).toHaveBeenCalledTimes(2);

  getRawLicense.mockReturnValue({ status: 'NOTactive', mode: 'trial' });

  expect(xpackInfoLicense.isBasic()).toBe(false);
  expect(getRawLicense).toHaveBeenCalledTimes(3);

  getRawLicense.mockReturnValue({ status: 'active', mode: 'platinum' });

  expect(xpackInfoLicense.isBasic()).toBe(false);
  expect(getRawLicense).toHaveBeenCalledTimes(4);

  expect(xpackInfoLicenseUndefined.isBasic()).toBe(false);
});
test('isNotBasic returns the true if active and not basic', () => {
  getRawLicense.mockReturnValue({ status: 'active', mode: 'platinum' });

  expect(xpackInfoLicense.isNotBasic()).toBe(true);
  expect(getRawLicense).toHaveBeenCalledTimes(1);

  getRawLicense.mockReturnValue({ status: 'NOTactive', mode: 'gold' });

  expect(xpackInfoLicense.isNotBasic()).toBe(false);
  expect(getRawLicense).toHaveBeenCalledTimes(2);

  getRawLicense.mockReturnValue({ status: 'NOTactive', mode: 'trial' });

  expect(xpackInfoLicense.isNotBasic()).toBe(false);
  expect(getRawLicense).toHaveBeenCalledTimes(3);

  getRawLicense.mockReturnValue({ status: 'active', mode: 'basic' });

  expect(xpackInfoLicense.isNotBasic()).toBe(false);
  expect(getRawLicense).toHaveBeenCalledTimes(4);

  expect(xpackInfoLicenseUndefined.isNotBasic()).toBe(false);
});

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 */

import { mirrorPluginStatus } from '../../../../../server/lib/mirror_plugin_status';
import { checkLicense } from '../check_license';
import { PLUGIN } from '../../../common/constants';

export function registerLicenseChecker(server) {
  const xpackMainPlugin = server.plugins.xpack_main;
  const watcherPlugin = server.plugins.watcher;

  mirrorPluginStatus(xpackMainPlugin, watcherPlugin);
  xpackMainPlugin.status.once('green', () => {
    // Register a function that is called whenever the xpack info changes,
    // to re-compute the license check results for this plugin
    xpackMainPlugin.info.feature(PLUGIN.ID).registerLicenseCheckResultsGenerator(checkLicense);
  });
}
export function checkLicense(xpackLicenseInfo) {
  // If, for some reason, we cannot get the license information
  // from Elasticsearch, assume worst case and disable the Watcher UI
  if (!xpackLicenseInfo || !xpackLicenseInfo.isAvailable()) {
    return {
      isAvailable: false,
      showLinks: true,
      enableLinks: false,
      message: 'You cannot use Watcher because license information is not available at this time.'
    };
  }

  const VALID_LICENSE_MODES = ['trial', 'standard', 'gold', 'platinum'];

  const isLicenseModeValid = xpackLicenseInfo.license.isOneOf(VALID_LICENSE_MODES);
  const isLicenseActive = xpackLicenseInfo.license.isActive();
  const licenseType = xpackLicenseInfo.license.getType();

  // License is not valid
  if (!isLicenseModeValid) {
    return {
      isAvailable: false,
      showLinks: false,
      enableLinks: false,
      message: `Your ${licenseType} license does not support Watcher. Please upgrade your license.`
    };
  }

  // License is valid but not active
  if (!isLicenseActive) {
    return {
      isAvailable: true,
      showLinks: true,
      enableLinks: true,
      message: `Your ${licenseType} license supports Watcher. You can use it. `
    };
  }

  // License is valid and active
  return {
    isAvailable: true,
    showLinks: true,
    enableLinks: true,
    message: `Your ${licenseType} license supports Watcher. You can use it. `
  };
}
isAvailable: false,
showLinks: true,
enableLinks: false,
message: 'You cannot use Watcher because your '${licenseType}' license has expired.';
}
}

// License is valid and active
return {
isAvailable: true,
showLinks: true,
enableLinks: true
};
}

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*/

export { checkLicense } from './check_license';

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import expect from 'expect.js';
import { set } from 'lodash';
import { checkLicense } from '../check_license';

describe('check_license', function () {

let mockLicenseInfo;
beforeEach(() => mockLicenseInfo = {});

describe('license information is undefined', () => {
beforeEach(() => mockLicenseInfo = undefined);

it('should set isAvailable to false', () => {
  expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
});

it('should set showLinks to true', () => {
  expect(checkLicense(mockLicenseInfo).showLinks).to.be(true);
});

it('should set enableLinks to false', () => {

});
describe('license information is not available', () => {
  beforeEach(() => mockLicenseInfo.isAvailable = () => false);

  it('should set isAvailable to false', () => {
    expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
  });

  it('should set showLinks to true', () => {
    expect(checkLicense(mockLicenseInfo).showLinks).to.be(true);
  });

  it('should set enableLinks to false', () => {
    expect(checkLicense(mockLicenseInfo).enableLinks).to.be(false);
  });

  it('should set a message', () => {
    expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
  });
});

describe('license information is available', () => {
  beforeEach(() => {
    mockLicenseInfo.isAvailable = () => true;
    set(mockLicenseInfo, 'license.getType', () => 'basic');
  });

  describe('& license is trial, standard, gold, platinum', () => {
    beforeEach(() => set(mockLicenseInfo, 'license.isOneOf', () => true));

    describe('& license is active', () => {
      beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => true));

      it('should set isAvailable to true', () => {
        expect(checkLicense(mockLicenseInfo).isAvailable).to.be(true);
      });

      it('should set showLinks to true', () => {
        expect(checkLicense(mockLicenseInfo).showLinks).to.be(true);
      });
    });
  });
});
it('should set enableLinks to true', () => {
  expect(checkLicense(mockLicenseInfo).enableLinks).to.be(true);
});

it('should not set a message', () => {
  expect(checkLicense(mockLicenseInfo).message).to.be(undefined);
});

describe('& license is expired', () => {
  beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => false));

  it('should set isAvailable to false', () => {
    expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
  });

  it('should set showLinks to true', () => {
    expect(checkLicense(mockLicenseInfo).showLinks).to.be(true);
  });

  it('should set enableLinks to false', () => {
    expect(checkLicense(mockLicenseInfo).enableLinks).to.be(false);
  });

  it('should set a message', () => {
    expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
  });
});

describe('& license is basic', () => {
  beforeEach(() => set(mockLicenseInfo, 'license.isOneOf', () => false));

  describe('& license is active', () => {
    beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => true));

    it('should set isAvailable to false', () => {
      expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
    });

    it('should set showLinks to false', () => {
      expect(checkLicense(mockLicenseInfo).showLinks).to.be(false);
    });

    it('should set a message', () => {
      expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
    });
  });
});
describe('& license is expired', () => {
  beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => false));

  it('should set isAvailable to false', () => {
    expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
  });

  it('should set showLinks to false', () => {
    expect(checkLicense(mockLicenseInfo).showLinks).to.be(false);
  });

  it('should set a message', () => {
    expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
  });
});

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 */

import { once } from 'lodash';
import { wrapCustomError } from '../error_wrappers';
import { PLUGIN } from '../../../common/constants';

export const licensePreRoutingFactory = once((server) => {
  const xpackMainPlugin = server.plugins.xpack_main;

  // License checking and enable/disable logic
  function licensePreRouting(request, reply) {
    const licenseCheckResults = xpackMainPlugin.info.feature(PLUGIN.ID).getLicenseCheckResults();
    if (!licenseCheckResults.isAvailable) {
      const error = new Error(licenseCheckResults.message);
      const statusCode = 403;
      const wrappedError = wrapCustomError(error, statusCode);
      reply(wrappedError);
    } else {
      reply();
    }
  }

  return licensePreRouting;
});
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口
export { licensePreRoutingFactory } from './license_pre_routing_factory';
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口
import expect from 'expect.js';
import { licensePreRoutingFactory } from '../license_pre_routing_factory';

describe('license_pre_routing_factory', () => {
    describe('#reportingFeaturePreRoutingFactory', () => {
        let mockServer;
        let mockLicenseCheckResults;

        beforeEach(() => {
            mockServer = {
                plugins: {
                    xpack_main: {
                        info: {
                            feature: () => (
                                getLicenseCheckResults: () => mockLicenseCheckResults
                            )
                        }
                    }
                }
            };
        });

        it('only instantiates one instance per server', () => {
            const firstInstance = licensePreRoutingFactory(mockServer);
            const secondInstance = licensePreRoutingFactory(mockServer);

            expect(firstInstance).to.be(secondInstance);
        });

        describe('isAvailable is false', () => {
            beforeEach(() => {
                mockLicenseCheckResults = {
                    isAvailable: false
                };
            });
        });
    });
});
it ('replies with 403', (done) => {
    const licensePreRouting = licensePreRoutingFactory(mockServer);
    const stubRequest = {};
    licensePreRouting(stubRequest, (response) => {
        expect(response).to.be.an(Error);
        expect(response.isBoom).to.be(true);
        expect(response.output.statusCode).to.be(403);
        done();
    });
});
});

describe('isAvailable is true', () => {
    beforeEach(() => {
        mockLicenseCheckResults = {
            isAvailable: true
        };
    });
});

it ('replies with nothing', (done) => {
    const licensePreRouting = licensePreRoutingFactory(mockServer);
    const stubRequest = {};
    licensePreRouting(stubRequest, (response) => {
        expect(response).to.be(undefined);
        done();
    });
});

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 */

import { licensePreRoutingFactory } from '../lib/license_pre_routing_factory';

/*
In order for the client to have the most up-to-date snapshot of the current license,
 it needs to make a round-trip to the kibana server. This refresh endpoint is provided
 for when the client needs to check the license, but doesn't need to pull data from the
 server for any reason, i.e., when adding a new watch.
*/

export function registerRefreshRoute(server) {
    const licensePreRouting = licensePreRoutingFactory(server);
}
server.route({
  path: '/api/watcher/license/refresh',
  method: 'GET',
  handler: (request, reply) => {
    reply({ success: true });
  },
  config: {
    pre: [licensePreRouting]
  }
});

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export { registerLicenseRoutes } from './register_license_routes';

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*/

import { registerRefreshRoute } from './register_refresh_route';

export function registerLicenseRoutes(server) {
  registerRefreshRoute(server);
}

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import { uiModules } from 'ui/modules';
import { XPackInfoProvider } from 'plugins/xpack_main/services/xpack_info';
import 'ui/url';
import { LicenseService } from './license_service';

uiModules.get('xpack/watcher')
  .factory('xpackWatcherLicenseService', ($injector) => {
    const $http = $injector.get('$http');
    const Private = $injector.get('Private');
    const xpackInfoService = Private(XPackInfoProvider);
    const kbnUrlService = $injector.get('kbnUrl');
    const $timeout = $injector.get('$timeout');
```javascript
return new LicenseService(xpackInfoService, kbnUrlService, $timeout, $http);
*/

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import React from 'react';
import { toastNotifications } from 'ui/notify';
import { MarkdownSimple } from 'ui/markdown';
import chrome from 'ui/chrome';
import { PLUGIN, ROUTES } from '../../../common/constants';

export class LicenseService {
  constructor(xpackInfoService, kbnUrlService, $timeout, $http) {
    this.$http = $http;
    this.xpackInfoService = xpackInfoService;
    this.kbnUrlService = kbnUrlService;
    this.$timeout = $timeout;
    this.basePath = chrome.addBasePath(ROUTES.API_ROOT);
  }

  get showLinks() {
    return Boolean(this.xpackInfoService.get(`features.${PLUGIN.ID}.showLinks`));
  }

  get enableLinks() {
    return Boolean(this.xpackInfoService.get(`features.${PLUGIN.ID}.enableLinks`));
  }

  get isAvailable() {
    return Boolean(this.xpackInfoService.get(`features.${PLUGIN.ID}.isAvailable`));
  }

  get message() {
    return this.xpackInfoService.get(`features.${PLUGIN.ID}.message`);
  }

  notifyAndRedirect() {
    toastNotifications.addDanger(
      title: <MarkdownSimple>{this.xpackInfoService.get(`features.${PLUGIN.ID}.message`)}</MarkdownSimple>,
    );
    this.kbnUrlService.redirect('/management');
  }

  /**
   * @param opts Object options
```
checkValidity() {
    return new Promise((resolve, reject) => {
        this.$timeout(() => {
            if (this.isAvailable) {
                return resolve();
            }
        });
    });
}

refreshLicense() {
    return this.$http.get(`${this.basePath}/license/refresh`)
        .then(response => {
            return response.data.success;
        });
}

export function registerLicenseChecker(server) {
    const xpackMainPlugin = server.plugins.xpack_main;
    const logstashPlugin = server.plugins.logstash;
    mirrorPluginStatus(xpackMainPlugin, logstashPlugin);
    xpackMainPlugin.status.once('green', () => {
        // Register a function that is called whenever the xpack info changes,
        // to re-compute the license check results for this plugin
    });
}

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*/

import './license_service.factory';

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*/

import { mirrorPluginStatus } from './server/lib/mirror_plugin_status';
import { checkLicense } from '../check_license';
import { PLUGIN } from '../../../common/constants';

export function registerLicenseChecker(server) {
    const xpackMainPlugin = server.plugins.xpack_main;
    const logstashPlugin = server.plugins.logstash;
    mirrorPluginStatus(xpackMainPlugin, logstashPlugin);
    xpackMainPlugin.status.once('green', () => {
        // Register a function that is called whenever the xpack info changes,
        // to re-compute the license check results for this plugin
    });
}

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import './license_service.factory';
export function checkLicense(xpackLicenseInfo) {
  // If, for some reason, we cannot get the license information
  // from Elasticsearch, assume worst case and disable the Logstash pipeline UI
  if (!xpackLicenseInfo || !xpackLicenseInfo.isAvailable()) {
    return {
      isAvailable: false,
      enableLinks: false,
      isReadOnly: false,
      message: 'You cannot manage Logstash pipelines because license information is not available at this time.'
    };
  }

  const VALID_LICENSE_MODES = [
    'trial',
    'standard',
    'gold',
    'platinum'
  ];

  const isLicenseModeValid = xpackLicenseInfo.license.isOneOf(VALID_LICENSE_MODES);
  const isLicenseActive = xpackLicenseInfo.license.isActive();
  const licenseType = xpackLicenseInfo.license.getType();
  const isSecurityEnabled = xpackLicenseInfo.feature('security').isEnabled();

  // Security is not enabled in ES
  if (!isSecurityEnabled) {
    const message = 'Security must be enabled in order to use Logstash pipeline management features.'
    + ' Please set xpack.security.enabled: true in your elasticsearch.yml.';
    return {
      isAvailable: false,
      enableLinks: false,
      isReadOnly: false,
      message
    };
  }

  // License is not valid
  if (!isLicenseModeValid) {
    return {
      isAvailable: false,
      enableLinks: false,
      isReadOnly: false,
      message
    };
  }
}
isAvailable: false,
enableLinks: false,
isReadOnly: false,
message: `Your ${licenseType} license does not support Logstash pipeline management features. Please upgrade your license. `;
};
}

// License is valid but not active, we go into a read-only mode.
if (!isLicenseActive) {
    return {
        isAvailable: true,
        enableLinks: true,
        isReadOnly: true,
        message: `You cannot edit, create, or delete your Logstash pipelines because your ${licenseType} license has expired. `;
    };
}

// License is valid and active
return {
    isAvailable: true,
    enableLinks: true,
    isReadOnly: false
};
*/

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*/

import expect from 'expect.js';
import { set } from 'lodash';
import { checkLicense } from '../check_license';

describe('check_license', function () {

    let mockLicenseInfo;
    beforeEach(() => mockLicenseInfo = {});

    describe('license information is undefined', () => {
        beforeEach(() => mockLicenseInfo = undefined);

        it('should set isAvailable to false', () => {
            expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
        });
    });
it('should set enableLinks to false', () => {
    expect(checkLicense(mockLicenseInfo).enableLinks).to.be(false);
});

it('should set isReadOnly to false', () => {
    expect(checkLicense(mockLicenseInfo).isReadOnly).to.be(false);
});

it('should set a message', () => {
    expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
});

describe('license information is not available', () => {
    beforeEach(() => mockLicenseInfo.isAvailable = () => false);

    it('should set isAvailable to false', () => {
        expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
    });

    it('should set enableLinks to false', () => {
        expect(checkLicense(mockLicenseInfo).enableLinks).to.be(false);
    });

    it('should set isReadOnly to false', () => {
        expect(checkLicense(mockLicenseInfo).isReadOnly).to.be(false);
    });

    it('should set a message', () => {
        expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
    });
});

describe('license information is available', () => {
    beforeEach(() => mockLicenseInfo.isAvailable = () => true;
    set(mockLicenseInfo, 'license.getType', () => 'basic');
});

describe('& license is trial, standard, gold, platinum', () => {
    beforeEach(() => {
        set(mockLicenseInfo, 'license.isOneOf', () => true);
        mockLicenseInfo.feature = () => ({ isEnabled: () => true }); // Security feature is enabled
    });

    describe('& license is active', () => {
        beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => true));
    });
});
describe('& license is expired', () => {
  beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => false));

  it('should set isAvailable to true', () => {
    expect(checkLicense(mockLicenseInfo).isAvailable).to.be(true);
  });

  it ('should set enableLinks to true', () => {
    expect(checkLicense(mockLicenseInfo).enableLinks).to.be(true);
  });

  it ('should set isReadOnly to true', () => {
    expect(checkLicense(mockLicenseInfo).isReadOnly).to.be(true);
  });

  it('should set a message', () => {
    expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
  });
});

describe('& license is basic', () => {
  beforeEach(() => {
    set(mockLicenseInfo, 'license.isOneOf', () => false);
    mockLicenseInfo.feature = () => ({ isEnabled: () => true }); // Security feature is enabled
    
    describe('& license is active', () => {
      beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => true));

      it('should set isAvailable to false', () => {
        expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
      });

      it ('should set enableLinks to true', () => {
        expect(checkLicense(mockLicenseInfo).enableLinks).to.be(true);
      });

      it ('should set isReadOnly to true', () => {
        expect(checkLicense(mockLicenseInfo).isReadOnly).to.be(true);
      });

      it('should set a message', () => {
        expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
      });
    });
  });
});

describe('& license is basic', () => {
  beforeEach(() => {
    set(mockLicenseInfo, 'license.isOneOf', () => false);
    mockLicenseInfo.feature = () => ({ isEnabled: () => true }); // Security feature is enabled
  });

  describe('& license is active', () => {
    beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => true));

    it('should set isAvailable to false', () => {
  });

  });
});
expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
});

it ('should set enableLinks to false', () => {
  expect(checkLicense(mockLicenseInfo).enableLinks).to.be(false);
});

it ('should set isReadOnly to false', () => {
  expect(checkLicense(mockLicenseInfo).isReadOnly).to.be(false);
});

it('should set a message', () => {
  expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
});
});

describe('& license is expired', () => {
  beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => false));

  it('should set isAvailable to false', () => {
    expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
  });

  it ('should set enableLinks to false', () => {
    expect(checkLicense(mockLicenseInfo).enableLinks).to.be(false);
  });

  it ('should set isReadOnly to false', () => {
    expect(checkLicense(mockLicenseInfo).isReadOnly).to.be(false);
  });

  it('should set a message', () => {
    expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
  });
});

describe('& security is disabled', () => {
  beforeEach(() => {
    mockLicenseInfo.feature = () => ({ isEnabled: () => false }); // Security feature is disabled
    set(mockLicenseInfo, 'license.isOneOf', () => true);
    set(mockLicenseInfo, 'license.isActive', () => true);
  });

  it('should set isAvailable to false', () => {
    expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
  });

  it ('should set enableLinks to false', () => {
    expect(checkLicense(mockLicenseInfo).enableLinks).to.be(false);
  });

  it ('should set isReadOnly to false', () => {
    expect(checkLicense(mockLicenseInfo).isReadOnly).to.be(false);
  });

  it('should set a message', () => {
    expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
  });
});

beforeEach(() => {
  mockLicenseInfo.feature = () => ({ isEnabled: () => false }); // Security feature is disabled
  set(mockLicenseInfo, 'license.isOneOf', () => true);
  set(mockLicenseInfo, 'license.isActive', () => true);
});

it('should set isAvailable to false', () => {
  expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
});
it('should set enableLinks to false', () => {
  expect(checkLicense(mockLicenseInfo).enableLinks).to.be(false);
});

it('should set isReadOnly to false', () => {
  expect(checkLicense(mockLicenseInfo).isReadOnly).to.be(false);
});

it('should set a message', () => {
  expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
});

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 */

import expect from 'expect.js';
import { licensePreRoutingFactory } from '../license_pre_routing_factory';

describe('license_pre_routing_factory', () => {
  describe('#logstashFeaturePreRoutingFactory', () => {
    let mockServer;
    let mockLicenseCheckResults;

    beforeEach(() => {
      mockServer = {
        plugins: {
          xpack_main: {
            info: {
              feature: () => ({
                getLicenseCheckResults: () => mockLicenseCheckResults
              })
            };
          }
        }
      };

      it('only instantiates one instance per server', () => {
        const firstInstance = licensePreRoutingFactory(mockServer);
        const secondInstance = licensePreRoutingFactory(mockServer);

        expect(firstInstance).to.be(secondInstance);
      });
  });
describe('isAvailable is false', () => {
  beforeEach(() => {
    mockLicenseCheckResults = {
      isAvailable: false
    };
  });

  it ('replies with 403', (done) => {
    const licensePreRouting = licensePreRoutingFactory(mockServer);
    const stubRequest = {};
    licensePreRouting(stubRequest, (response) => {
      expect(response).to.be.an(Error);
      expect(response.isBoom).to.be(true);
      expect(response.output.statusCode).to.be(403);
      done();
    });
  });
});

describe('isAvailable is true', () => {
  beforeEach(() => {
    mockLicenseCheckResults = {
      isAvailable: true
    };
  });

  it ('replies with nothing', (done) => {
    const licensePreRouting = licensePreRoutingFactory(mockServer);
    const stubRequest = {};
    licensePreRouting(stubRequest, (response) => {
      expect(response).to.be(undefined);
      done();
    });
  });
});

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 */

import { uiModules } from 'ui/modules';
import { XPackInfoProvider } from 'plugins/xpack_main/services/xpack_info';
import 'ui/url';
import { LogstashLicenseService } from './logstash_license_service';
uiModules.get('xpack/logstash')
.factory('logstashLicenseService', ($injector) => {
    const Private = $injector.get('Private');
    const xpackInfoService = Private(XPackInfoProvider);
    const kbnUrlService = $injector.get('kbnUrl');
    const $timeout = $injector.get('timeout');

    return new LogstashLicenseService(xpackInfoService, kbnUrlService, $timeout);
});

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 */

import React from 'react';
import { toastNotifications } from 'ui/notify';
import { MarkdownSimple } from 'ui/markdown';
import { PLUGIN } from '../../../common/constants';

export class LogstashLicenseService {
    constructor(xpackInfoService, kbnUrlService, $timeout) {
        this.xpackInfoService = xpackInfoService;
        this.kbnUrlService = kbnUrlService;
        this.$timeout = $timeout;
    }

    get enableLinks() {
        return Boolean(this.xpackInfoService.get(`features.${PLUGIN.ID}.enableLinks`));
    }

    get isAvailable() {
        return Boolean(this.xpackInfoService.get(`features.${PLUGIN.ID}.isAvailable`));
    }

    get isReadOnly() {
        return Boolean(this.xpackInfoService.get(`features.${PLUGIN.ID}.isReadOnly`));
    }

    get message() {
        return this.xpackInfoService.get(`features.${PLUGIN.ID}.message`);
    }

    notifyAndRedirect() {
        toastNotifications.addDanger({'
            title: <MarkdownSimple>{this.xpackInfoService.get(`features.${PLUGIN.ID}.message`)}</MarkdownSimple>,
        });
    }
}
this.kbnUrlService.redirect('/management');

/**
 * Checks if the license is valid or the license can perform downgraded UI tasks.
 * Otherwise, notifies and redirects.
 */
checkValidity() {
    return new Promise((resolve, reject) => {
        this.$timeout(() => {
            if (this.isAvailable) {
                return resolve();
            }
            this.notifyAndRedirect();
            return reject();
        }, 10); // To allow latest XHR call to update license info
    });
}

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 */
import { get } from 'lodash';
import { checkParam } from './error_missing_required';
import { createQuery } from './create_query';
import { ElasticsearchMetric } from './metrics';

export function getClusterLicense(req, esIndexPattern, clusterUuid) {
    checkParam(esIndexPattern, 'esIndexPattern in getClusterLicense');

    const params = {
        index: esIndexPattern,
        size: 1,
        ignoreUnavailable: true,
        filterPath: 'hits.hits._source.license',
        body: {
            sort: { timestamp: { order: 'desc' } },
            query: createQuery({
                type: 'cluster_stats',
                clusterUuid,
                metric: ElasticsearchMetric.getMetricFields()
            })
        }
    };
const { callWithRequest } = req.server.plugins.elasticsearch.getCluster('monitoring');
return callWithRequest(req, 'search', params)
.then(response => {
    return get(response, 'hits.hits[0].source.license', {});
});

import { includes } from 'lodash';

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 */

export function checkLicense(type, active, clusterSource, watcher = true) {
    // return object, set up with safe defaults
    const licenseInfo = {
        clusterAlerts: { enabled: false }
    };

    // Disabled because there is no license
    if (!type) {
        return Object.assign(licenseInfo, {
            message: `Cluster Alerts are not displayed because the [${clusterSource}] cluster's license could not be
determined.`
        });
    }

    // Disabled because the license type is not valid (basic)
    if (!includes(['trial', 'standard', 'gold', 'platinum'], type)) {
        return Object.assign(licenseInfo, {
            message: `Cluster Alerts are not displayed if Watcher is disabled or the [${clusterSource}] cluster's current
license is basic.`
        });
    }

    // Disabled because the license is inactive
    if (!active) {

}
return Object.assign(licenseInfo, {
    message: `Cluster Alerts are not displayed because the [${clusterSource}] cluster's current license [${type}] is not active.`
});

// Disabled because Watcher is not enabled (it may or may not be available)
if (!watcher) {
    return Object.assign(licenseInfo, { message: 'Cluster alerts is not enabled because Watcher is disabled.' });
}

return Object.assign(licenseInfo, { clusterAlerts: { enabled: true } });

/**
 * Function to "generate" license check results for @code xpackInfo.
 *
 * @param {Object} xpackInfo license information for the _Monitoring_ cluster
 * @param {Function} _checkLicense Method exposed for easier unit testing
 * @returns {Object} Response from @code checker
 */
export function checkLicenseGenerator(xpackInfo, _checkLicense = checkLicense) {
    let type;
    let active = false;
    let watcher = false;

    if (xpackInfo && xpackInfo.license) {
        const watcherFeature = xpackInfo.feature('watcher');

        if (watcherFeature) {
            watcher = watcherFeature.isEnabled();
        }

        type = xpackInfo.license.getType();
        active = xpackInfo.license.isActive();
    }

    return _checkLicense(type, active, 'monitoring', watcher);
}

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 */

import { get } from 'lodash';

/**
* Determine if an API for Cluster Alerts should respond based on the license and configuration of the monitoring cluster.

* Note: This does not guarantee that any production cluster has a valid license; only that Cluster Alerts in general can be used!

* @param {Object} server Server object containing config and plugins
* @return {Boolean} [@code true] to indicate that cluster alerts can be used.
*/

export function verifyMonitoringLicense(server) {
    const config = server.config();

    // if cluster alerts are enabled, then ensure that we can use it according to the license
    if (config.get('xpack.monitoring.cluster_alerts.enabled')) {
        const xpackInfo = get(server.plugins.monitoring, 'info');
        if (xpackInfo) {
            const monitoringCluster = xpackInfo.feature('monitoring').getLicenseCheckResults();

            return {
                enabled: monitoringCluster.clusterAlerts.enabled,
                message: monitoringCluster.message
            };;
        }
    }

    return {
        enabled: false,
        message: 'Status of Cluster Alerts feature could not be determined.'
    };
}

return {
    enabled: false,
    message: 'Cluster Alerts feature is disabled.'
};

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*/

import { checkLicense, checkLicenseGenerator } from '../check_license';
import expect from 'expect.js';
import sinon from 'sinon';

describe('Monitoring Check License', () => {
    describe('License undeterminable', () => {
        it('null active license - results false with a message', () => {

            return {
                enabled: false,
                message: 'Cluster Alerts feature is disabled.'
            };
        });
    });
});
const result = checkLicense('platinum', true, 'test-cluster-mno');
expect(result).to.eql({
  clusterAlerts: { enabled: true },
});

describe('Supported license types', () => {
  it('gold active license - results true with no message', () => {
    const result = checkLicense('gold', true, 'test-cluster-mno');
    expect(result).to.eql({
      clusterAlerts: { enabled: true }
    });
  });

  it('platinum active license - results true with no message', () => {
    const result = checkLicense('platinum', true, 'test-cluster-mno');
    expect(result).to.eql({
      clusterAlerts: { enabled: true }
    });
  });

  it('platinum inactive license - results false with a message', () => {
    const result = checkLicense('platinum', false, 'test-cluster-def');
    expect(result).to.eql({
      clusterAlerts: { enabled: false },
      message: `Cluster Alerts are not displayed if Watcher is disabled or the [test-cluster-def] cluster's current license is basic.
    });
  });

  it('standard active license - results true with no message', () => {
    const result = checkLicense('standard', true, 'test-cluster-jkl');
    expect(result).to.eql({
      clusterAlerts: { enabled: true }
    });
  });

  it('basic active license - results false with a message', () => {
    const result = checkLicense('basic', true, 'test-cluster-ghi');
    expect(result).to.eql({
      clusterAlerts: { enabled: false },
      message: `Cluster Alerts are not displayed if Watcher is disabled or the [test-cluster-ghi] cluster's current license is basic.
    });
  });

  describe('Inactive license', () => {
    it('platinum inactive license - results false with a message', () => {
      const result = checkLicense('platinum', false, 'test-cluster-def');
      expect(result).to.eql({
        clusterAlerts: { enabled: false },
        message: `Cluster Alerts are not displayed because the [test-cluster-def] cluster's license could not be determined.
      });
    });
  });

  describe('Supported license types', () => {
    it('standard active license - results true with no message', () => {
      const result = checkLicense('standard', true, 'test-cluster-jkl');
      expect(result).to.eql({
        clusterAlerts: { enabled: true }
      });
    });
  });

  describe('Unsupported license types', () => {
    it('basic active license - results false with a message', () => {
      const result = checkLicense('basic', true, 'test-cluster-ghi');
      expect(result).to.eql({
        clusterAlerts: { enabled: false },
        message: `Cluster Alerts are not displayed if Watcher is disabled or the [test-cluster-ghi] cluster's current license is basic.
      });
    });
  });

  it('platinum active license - results true with no message', () => {
    const result = checkLicense('platinum', true, 'test-cluster-mno');
    expect(result).to.eql({
      clusterAlerts: { enabled: true }
    });
  });

  it('platinum inactive license - results false with a message', () => {
    const result = checkLicense('platinum', false, 'test-cluster-def');
    expect(result).to.eql({
      clusterAlerts: { enabled: false },
      message: `Cluster Alerts are not displayed because the [test-cluster-def] cluster's license could not be determined.
    });
  });
const result = checkLicense('platinum', true, 'test-cluster-pqr');
expect(result).to.eql({
  clusterAlerts: { enabled: true }
});

describe('Watcher is not enabled', () => {
  it('platinum active license - watcher disabled - results false with message', () => {
    const result = checkLicense('platinum', true, 'test-cluster-pqr', false);
    expect(result).to.eql({
      clusterAlerts: { enabled: false },
      message: 'Cluster alerts is not enabled because Watcher is disabled.'
    });
  });
});

describe('XPackInfo checkLicenseGenerator', () => {
  it('with deleted license', () => {
    const expected = 123;
    const checker = sinon.stub().returns(expected);
    const result = checkLicenseGenerator(null, checker);
    expect(result).to.be(expected);
    expect(checker.withArgs(undefined, false, 'monitoring', false).called).to.be(true);
  });

  it('license without watcher', () => {
    const expected = 123;
    const xpackInfo = {
      license: {
        getType: () => 'fake-type',
        isActive: () => true
      },
      feature: () => null
    };
    const checker = sinon.stub().returns(expected);
    const result = checkLicenseGenerator(xpackInfo, checker);
    expect(result).to.be(expected);
    expect(checker.withArgs('fake-type', true, 'monitoring', false).called).to.be(true);
  });

  it('mock license with watcher', () => {
    const expected = 123;
    const feature = sinon.stub().returns({ isEnabled: () => true });
    const xpackInfo = {
      license: {
        getType: () => 'fake-type',
        isActive: () => true
      },
      feature: () => null
    };
    const checker = sinon.stub()
      .withArgs('watcher')
      .returns(feature);
    const result = checkLicenseGenerator(xpackInfo, checker);
    expect(result).to.be(expected);
    expect(checker.withArgs('watcher').called).to.be(true);
  });
});
const checker = sinon.stub().returns(expected);
const result = checkLicenseGenerator(xpackInfo, checker);

expect(result).to.be(expected);
expect(feature.withArgs('watcher').calledOnce).to.be(true);
expect(checker.withArgs('another-type', true, 'monitoring', true).called).to.be(true);
});

it('platinum license with watcher', () => {
  const xpackInfo = {
    license: {
      getType: () => 'platinum',
      isActive: () => true
    },
    feature: () => {
      return {
        isEnabled: () => true
      };
    }
  };
  const result = checkLicenseGenerator(xpackInfo);

  expect(result).to.eql({ clusterAlerts: { enabled: true } });
});

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import { verifyMonitoringLicense } from '../verify_monitoring_license';
import expect from 'expect.js';
import sinon from 'sinon';

describe('Monitoring Verify License', () => {
  describe('Disabled by Configuration', () => {
    const get = sinon.stub().withArgs('xpack.monitoring.cluster_alerts.enabled').returns(false);
    const server = { config: sinon.stub().returns({ get }) };

    it('verifyMonitoringLicense returns false without checking the license', () => {

const verification = verifyMonitoringLicense(server);

expect(verification.enabled).to.be(false);
expect(verification.message).to.be('Cluster Alerts feature is disabled.

expect(get.withArgs('xpack.monitoring.cluster_alerts.enabled').calledOnce).to.be(true);
});
});

describe('Enabled by Configuration', () => {
  it('verifyMonitoringLicense returns false if enabled by configuration, but not by license', () => {
    const get = sinon.stub().withArgs('xpack.monitoring.cluster_alerts.enabled').returns(true);
    const server = {
      config: sinon.stub().returns({ get }),
      plugins: { monitoring: { info: { } } }
    };
    const getLicenseCheckResults = sinon.stub().returns({ clusterAlerts: { enabled: false }, message: 'failed!!' });
    const feature = sinon.stub().withArgs('monitoring').returns({ getLicenseCheckResults });
    server.plugins.monitoring.info = { feature };

    const verification = verifyMonitoringLicense(server);

    expect(verification.enabled).to.be(false);
    expect(verification.message).to.be('failed!!');

    expect(get.withArgs('xpack.monitoring.cluster_alerts.enabled').calledOnce).to.be(true);
    expect(feature.withArgs('monitoring').calledOnce).to.be(true);
    expect(getLicenseCheckResults.calledOnce).to.be(true);
  });

  it('verifyMonitoringLicense returns true if enabled by configuration and by license', () => {
    const get = sinon.stub().withArgs('xpack.monitoring.cluster_alerts.enabled').returns(true);
    const server = {
      config: sinon.stub().returns({ get }),
      plugins: { monitoring: { info: { } } }
    };
    const getLicenseCheckResults = sinon.stub().returns({ clusterAlerts: { enabled: true }, message: 'failed!!' });
    const feature = sinon.stub().withArgs('monitoring').returns({ getLicenseCheckResults });
    server.plugins.monitoring.info = { feature };

    const verification = verifyMonitoringLicense(server);

    expect(verification.enabled).to.be(true);
    expect(verification.message).to.be.undefined;

    expect(get.withArgs('xpack.monitoring.cluster_alerts.enabled').calledOnce).to.be(true);
const get = sinon.stub().withArgs('xpack.monitoring.cluster_alerts.enabled').returns(true);
const server = {
  config: sinon.stub().returns({ get }),
  plugins: { monitoring: undefined } // simulate race condition
};

const verification = verifyMonitoringLicense(server);

expect(verification.enabled).to.be(false);
expect(verification.message).to.be('Status of Cluster Alerts feature could not be determined.');

expect(get.withArgs('xpack.monitoring.cluster_alerts.enabled').calledOnce).to.be(true);
});
});

<monitoring-main data-test-subj="xpackLicensePage">
  <div id="licenseReact" class="licenseFeature"></div>
</monitoring-main>

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 */

import { get, find } from 'lodash';
import React from 'react';
import { render, unmountComponentAtNode } from 'react-dom';
import chrome from 'ui/chrome';
import { formatDateTimeLocal } from '../../../common/formatting';
import { MANAGEMENT_BASE_PATH } from 'plugins/xpack_main/components';
import { License } from 'plugins/monitoring/components';
import { timefilter } from 'ui/timefilter';

const REACT_NODE_ID = 'licenseReact';

export class LicenseViewController {
  constructor($injector, $scope) {
    timefilter.disableTimeRangeSelector();
    timefilter.disableAutoRefreshSelector();

    $scope.$on('$destroy', () => {
      unmountComponentAtNode(document.getElementById(REACT_NODE_ID));
    });
this.init($injector, $scope); }

init($injector, $scope) {
  const globalState = $injector.get('globalState');
  const title = $injector.get('title');
  const $route = $injector.get('$route');

  const cluster = find($route.current.locals.clusters, { cluster_uuid: globalState.cluster_uuid });
  $scope.cluster = cluster;
  title($scope.cluster, 'License');

  this.license = cluster.license;
  this.isExpired = Date.now() > get(cluster, 'license.expiry_date_in_millis');
  this.isPrimaryCluster = cluster.isPrimary;

  const basePath = chrome.getBasePath();
  this.uploadLicensePath = basePath + '/app/kibana#' + MANAGEMENT_BASE_PATH + 'upload_license';

  this.renderReact($scope); }

renderReact($scope) {
  $scope.$evalAsync(() => { 
    const { isPrimaryCluster, license, isExpired, uploadLicensePath } = this;
    let expiryDate = license.expiry_date_in_millis;
    if (license.expiry_date_in_millis !== undefined) {
      expiryDate = formatDateTimeLocal(license.expiry_date_in_millis);
    }

    // Mount the React component to the template
    render(<License
      isPrimaryCluster={isPrimaryCluster}
      status={license.status}
      type={license.type}
      isExpired={isExpired}
      expiryDate={expiryDate}
      uploadLicensePath={uploadLicensePath}
    />,
      document.getElementById(REACT_NODE_ID));
  });
}
/*
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import uiRoutes from 'ui/routes';
import { routeInitProvider } from 'plugins/monitoring/lib/route_init';
import template from './index.html';
import { LicenseViewController } from './controller';

uiRoutes.when('/license', {
  template,
  resolve: {
    clusters: (Private) => {
      const routeInit = Private(routeInitProvider);
      return routeInit();
    },
  },
  controllerAs: 'licenseView',
  controller: LicenseViewController
});

@import (reference) '~ui/styles/variables/colors';

.tab-license {
  background: @globalColorLightestGray;
}

.licenseFeature {
  flex-grow: 1;
  background: @globalColorLightestGray;
  min-height: 100vh;
}

.licenseManagement__pageBody {
  padding-top: 24px;
  min-height: auto;
}

.licenseManagement__pageContent {
  flex-grow: 0; // Temporary fix for EUI bug.
}

.licenseManagement__contain {
  margin: auto;
}

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 */
import { contains } from 'lodash';
import { uiModules } from 'ui/modules';
import { ML_SUPPORTED_LICENSES } from '../../common/constants';

const uiModule = uiModules.get('monitoring/license', []);
uiModule.service('license', () => {
  return new class LicenseService {
    constructor() {
      // do not initialize with usable state
      this.license = {
        type: null,
        expiry_date_in_millis: -Infinity
      };
    }

    // we're required to call this initially
    setLicense(license) {
      this.license = license;
    }

    isBasic() {
      return this.license.type === 'basic';
    }

    isValidSupported() {
      return contains(ML_SUPPORTED_LICENSES, this.license.type);
    }

    doesExpire() {
      const { expiry_date_in_millis: expiryDateInMillis } = this.license;
      return expiryDateInMillis !== undefined;
    }

    isActive() {
      const { expiry_date_in_millis: expiryDateInMillis } = this.license;
      return (new Date()).getTime() < expiryDateInMillis;
    }

    isExpired() {
      if (this.doesExpire()) {
        const { expiry_date_in_millis: expiryDateInMillis } = this.license;
        return (new Date()).getTime() >= expiryDateInMillis;
      }
      return false;
    }
  };
/*
import React from 'react';
import { EuiPage, EuiPageBody, EuiSpacer, EuiCodeBlock, EuiPanel } from '@elastic/eui';
import { LicenseStatus, AddLicense } from 'plugins/xpack_main/components';

const LicenseUpdateInfoForPrimary = ({ isPrimaryCluster, uploadLicensePath }) => {
  if (!isPrimaryCluster) {
    return null;
  }

  // viewed license is for the cluster directly connected to Kibana
  return <AddLicense uploadPath={uploadLicensePath} />
};

const LicenseUpdateInfoForRemote = ({ isPrimaryCluster }) => {
  if (!isPrimaryCluster) {
    return null;
  }

  // viewed license is for a remote monitored cluster not directly connected to Kibana
  return (
    <EuiPanel>
      <p>
        To update the license for this cluster, provide the license file through the Elasticsearch API:
      </p>
      <EuiSpacer />
      <EuiCodeBlock>
        ['curl -XPUT -u <user> 'https://<host>:<port>/_xpack/license' -H 'Content-Type: application/json' -d @license.json']
      </EuiCodeBlock>
    </EuiPanel>
  );
};

export function License(props) {

const { status, type, isExpired, expiryDate } = props;
return (
  <EuiPage className="licenseManagement">
    <EuiPageBody className="licenseManagement__pageBody">
      <div className="licenseManagement__contain">
        <LicenseStatus
          isExpired={isExpired}
          status={status}
          type={type}
          expiryDate={expiryDate}
        />
        <EuiSpacer size="l" />
        <LicenseUpdateInfoForPrimary {...props} />
        <LicenseUpdateInfoForRemote {...props} />
      </div>
    </EuiPageBody>
  </EuiPage>

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   */
*/

import React, { Fragment } from 'react';
import moment from 'moment-timezone';
import { capitalize } from 'lodash';
import { EuiLink } from '@elastic/eui';

const formatDateLocal = input => moment.tz(input, moment.tz.guess()).format('LL');

const WillExpireOn = ({ expiryDate }) => {
  if (expiryDate === undefined) {
    return null;
  }
  return <Fragment> will expire on {formatDateLocal(expiryDate)}</Fragment>;
}

export function LicenseText({ license, showLicenseExpiration }) {
  if (!showLicenseExpiration) {
    return null;
  }
  return (<Fragment> will expire on {formatDateLocal(license.expiryDate)}</Fragment>);
}
export const PLUGIN = {
  ID: 'license_management'
};

export const BASE_PATH = '/management/elasticsearch/license_management/';

const getStartBasicPath = (acknowledge) => `_xpack/license/start_basic${ acknowledge ? '?acknowledge=true' : '' };`;

export async function startBasic(req, xpackInfo) {
  const { acknowledge } = req.query;
  const { callWithRequest } = req.server.plugins.elasticsearch.getCluster('admin');
  const options = {
    method: 'POST',
    path: getStartBasicPath(acknowledge)
  }; 
  try {
    const response = await callWithRequest(req, 'transport.request', options);
  }
}
const { basic_was_started } = response;
if (basic_was_started) {
  await xpackInfo.refreshNow();
}
return response;
} catch (error) {
  return error.body;
}
}
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 */
import Boom from 'boom';

/*
 * Wraps ES errors into a Boom error response and returns it
 * This also handles the permissions issue gracefully
 *
 * @param err Object ES error
 * @return Object Boom error response
 */
export function wrapEsError(err) {
  const statusCode = err.statusCode;
  if (statusCode === 403) {
    return Boom.forbidden('Insufficient user permissions for adding a license.');
  }
  return Boom.boomify(err, err.statusCode);
}

/

const getLicensePath = (acknowledge) => `/_xpack/license${ acknowledge ? '?acknowledge=true' : ''}`;

export async function putLicense(req, xpackInfo) {
  const { acknowledge } = req.query;
  const { callWithRequest } = req.server.plugins.elasticsearch.getCluster('admin');
  const options = {
    method: 'POST',
    path: getLicensePath(acknowledge),
    body: req.payload
  };

try {
    const response = await callWithRequest(req, 'transport.request', options);
    const { acknowledged, license_status: licenseStatus } = response;
    if (acknowledged && licenseStatus === 'valid') {
        await xpackInfo.refreshNow();
    }
    return response;
} catch (error) {
    return error.body;
}
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*/

export async function canStartTrial(req) {
    const { callWithRequest } = req.server.plugins.elasticsearch.getCluster('admin');
    const options = {
        method: 'GET',
        path: '/_xpack/license/trial_status'
    };
    try {
        const response = await callWithRequest(req, 'transport.request', options);
        const { eligible_to_start_trial } = response;
        return eligible_to_start_trial;
    } catch (error) {
        return error.body;
    }
}

export async function startTrial(req, xpackInfo) {
    const { callWithRequest } = req.server.plugins.elasticsearch.getCluster('admin');
    const options = {
        method: 'POST',
        path: '/_xpack/license/start_trial?acknowledge=true'
    };
    try {
        /*eslint camelcase: 0*/
        const response = await callWithRequest(req, 'transport.request', options);
        const { trial_was_started } = response;
        if (trial_was_started) {
            await xpackInfo.refreshNow();
        }
        return response;
    } catch (error) {
        return error.body;
    }
}
import { putLicense } from '../lib/license';
import { wrapEsError } from '../lib/wrap_es_error';

export function registerLicenseRoute(server) {
  const xpackInfo = server.plugins.xpack_main.info;
  server.route({
    path: '/api/license',
    method: 'PUT',
    handler: (request, reply) => {
      return putLicense(request, xpackInfo)
        .then(reply, e => reply(wrapEsError(e)));
    }
  });
}

import { canStartTrial, startTrial } from '../lib/start_trial';
import { wrapEsError } from '../lib/wrap_es_error';

export function registerStartTrialRoutes(server) {
  const xpackInfo = server.plugins.xpack_main.info;
  server.route({
    path: '/api/license/start_trial',
    method: 'GET',
    handler: (request, reply) => {
      return canStartTrial(request)
        .then(reply, e => reply(wrapEsError(e)));
    }
  });
  server.route({
    path: '/api/license/start_trial',
    method: 'POST',
    handler: (request, reply) => {
      return startTrial(request, xpackInfo)
        .then(reply, e => reply(wrapEsError(e)));
    }
  });
import { startBasic } from './lib/start_basic';
import { wrapEsError } from './lib/wrap_es_error';

export function registerStartBasicRoute(server) {
  const xpackInfo = server.plugins.xpack_main.info;
  server.route({
    path: '/api/license/start_basic',
    method: 'POST',
    handler: (request, reply) => {
      return startBasic(request, xpackInfo)
        .then(reply, e => reply(wrapEsError(e)));
    }
  });
}

export { registerLicenseRoute } from './register_license_route';
export { registerStartBasicRoute } from './register_start_basic_route';
export { registerStartTrialRoutes } from './register_start_trial_routes';

import React from 'react';
import { LicenseStatus } from './license_status';
import { RevertToBasic } from './revert_to_basic';
import { StartTrial } from './start_trial';
import { AddLicense } from './add_license';
import { RequestTrialExtension } from './request_trial_extension';
import { EuiFlexGroup, EuiFlexItem, EuiSpacer } from '@elastic/eui';

export const LicenseDashboard = () => {
  return (
    <div className="licenseManagement__container">
      <EuiFlexGroup justifyContent="spaceAround">
        <LicenseStatus />
      </EuiFlexGroup>
      <EuiSpacer size="l" />
      <EuiFlexGroup justifyContent="spaceAround">
        <EuiFlexItem><AddLicense /></EuiFlexItem>
        <StartTrial />
        <RequestTrialExtension />
        <RevertToBasic />
      </EuiFlexGroup>
    </div>
  );
};

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 */

import React from 'react';
import { EuiFlexItem, EuiCard, EuiLink, EuiButton } from '@elastic/eui';

export const RequestTrialExtension = ({ shouldShowRequestTrialExtension }) => {
  if (!shouldShowRequestTrialExtension) {
    return null;
  }
  const description = (<span>
    If you'd like to continuing using security, machine learning, and our
    other awesome{'
    }
    <EuiLink href="https://www.elastic.co/subscriptions/xpack"
Platinum features
<span request an extension now.
</span>
);
return (
</EuiFlexItem>
<EuiCard
title="Extend your trial"
description={description}
footer={
</EuiButton>
> Extend trial
</EuiButton>
}
</EuiFlexItem>
);
};
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import { connect } from 'react-redux';

import { RequestTrialExtension as PresentationComponent } from './request_trial_extension';
import {
shouldShowRequestTrialExtension
} from './.../store/reducers/licenseManagement';

const mapStateToProps = state => {
return {
shouldShowRequestTrialExtension: shouldShowRequestTrialExtension(state),
};
};

export const RequestTrialExtension = connect(mapStateToProps)(
PresentationComponent
);
export { RequestTrialExtension } from './request_trial_extension.container';
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export { RevertToBasic } from './revert_to_basic.container';
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import React from 'react';
import {
  EuiFlexItem,
  EuiCard,
  EuiButton,
  EuiLink,
  EuiOverlayMask,
  EuiConfirmModal,
  EuiText
} from '@elastic/eui';

export class RevertToBasic extends React.PureComponent {
  cancel = () => {
    this.props.uploadLicenseStatus({});
  };

  acknowledgeModal() {
    const {
      needsAcknowledgement,
      messages: [firstLine, ...messages] = [],
      startBasicLicense,
      cancelStartBasicLicense,
      licenseType
    } = this.props;
    if (!needsAcknowledgement) {
      return null;
    }
  }
}
return (  
<EuiOverlayMask>  
<EuiConfirmModal    
title="Confirm Revert to Basic License"    
onCancel={cancelStartBasicLicense}    
onConfirm={() => startBasicLicense(licenseType, true)}    
cancelButtonText="Cancel"    
confirmButtonText="Confirm"  
>  
</EuiConfirmModal>  
</EuiOverlayMask>  
);  
}  
render() {  
const {  
licenseType,  
shouldShowRevertToBasicLicense,  
startBasicLicense  
} = this.props;  
if (!shouldShowRevertToBasicLicense) {  
return null;  
}  
const description = (  
<span>  
Youll revert to our free features and lose access to security, machine learning and other {' '}  
<EuiLink  
href="https://www.elastic.co/subscriptions/xpack"  
target="_blank"  
>  
Platinum features  
</EuiLink>.  
</span>  
);  
return (  
<EuiFlexItem>  
{this.acknowledgeModal()}  
<EuiCard  
title="Revert to Basic license"
import { connect } from 'react-redux';

import { RevertToBasic as PresentationComponent } from './revert_to_basic';
import {
  startBasicLicenseNeedsAcknowledgement,
  getLicenseType,
  shouldShowRevertToBasicLicense,
  getStartBasicMessages
} from '.../store/reducers/licenseManagement';
import { startBasicLicense, cancelStartBasicLicense } from '.../store/actions/start_basic';

const mapStateToProps = state => {
  return {
    shouldShowRevertToBasicLicense: shouldShowRevertToBasicLicense(state),
    licenseType: getLicenseType(state),
    needsAcknowledgement: startBasicLicenseNeedsAcknowledgement(state),
    messages: getStartBasicMessages(state)
  };
};

const mapDispatchToProps = {
  startBasicLicense,
  cancelStartBasicLicense
};

export const RevertToBasic = connect(mapStateToProps, mapDispatchToProps)(
  PresentationComponent
);
import React from 'react';
import { BASE_PATH } from '../../../../common/constants';

import { EuiCard, EuiButton } from '@elastic/eui';

export const AddLicense = ( { uploadPath = `#${BASE_PATH}upload_license` } ) => {
  return (  
    <EuiCard  
      title="Update your license" 
      description="If you already have a new license, upload it now." 
      footer={  
        <EuiButton  
          data-test-subj="updateLicenseButton" 
          style={{ marginTop: 'auto' }} 
          href={uploadPath} 
        > 
          Update license 
        </EuiButton> 
      } 
    />  
  );  
};

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 */

export { AddLicense } from './add_license';

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import { connect } from 'react-redux';

import { StartTrial as PresentationComponent } from './start_trial';
import { loadTrialStatus, startLicenseTrial } from '../../../store/actions/start_trial';
import { shouldShowStartTrial } from '../../../store/reducers/licenseManagement';

const mapStateToProps = (state) => {
  return {
    shouldShowStartTrial: shouldShowStartTrial(state),
  }
};
const mapDispatchToProps = {
  loadTrialStatus,
  startLicenseTrial
};

export const StartTrial = connect(mapStateToProps, mapDispatchToProps)(PresentationComponent);

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 */

export { StartTrial } from './start_trial.container';

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 */

import React from 'react';

import {
  EuiButton,
  EuiFlexItem,
  EuiCard,
  EuiLink,
  EuiOverlayMask,
  EuiConfirmModal,
  EuiText
} from '@elastic/eui';

import { ELASTIC_WEBSITE_URL, DOC_LINK_VERSION } from 'ui/documentation_links';

const esBase = `${ELASTIC_WEBSITE_URL}guide/en/elasticsearch/reference/${DOC_LINK_VERSION}`;
const securityDocumentationLink = `${esBase}/security-settings.html`;

export class StartTrial extends React.PureComponent {
  constructor(props) {
    super(props);
    this.state = { showConfirmation: false };  
  }

  componentWillMount() {
    this.props.loadTrialStatus();
  }
}
acknowledgeModal() {
  const { showConfirmation } = this.state;
  if (!showConfirmation) {
    return null;
  }
  const { startLicenseTrial } = this.props;
  return (
    <EuiOverlayMask>
      <EuiConfirmModal
        title="Start your free 30-day trial"
        onCancel={() => this.setState({ showConfirmation: false })}
        onConfirm={() => startLicenseTrial()}
        cancelButtonText="Cancel"
        confirmButtonText="Start my trial"
      >
        <div>
          <EuiText>
            <p>
              This trial is for the full set of{' '}
              <EuiLink href="https://www.elastic.co/subscriptions/xpack"
                target="_blank"
              >Platinum features</EuiLink> of the Elastic Stack. You'll get immediate access to:
            </p>
            <ul>
              <li>Machine learning</li>
              <li>Alerting</li>
              <li>Graph capabilities</li>
              <li>JDBC connectivity for SQL</li>
            </ul>
          </EuiText>
          <p>
            Security features, such as authentication (native, AD/LDAP, SAML, PKI), role-based access control, and auditing, require configuration. See the{' '}
            <EuiLink href={securityDocumentationLink} target="_blank"
              >documentation</EuiLink> for instructions.
          </p>
          <p>
            By starting this trial, you agree that it is subject to these{' '}
            <EuiLink href="https://elastic.co/legal/trial_license"
const shouldShowStartTrial = this.props;
if (!shouldShowStartTrial) {
  return null;
}
const description = (
  <span>
    Experience what security, machine learning, and all our other
  </span>
  Platinum features
  
  have to offer.
);

const footer = ( 
  <EuiButton data-test-subj="startTrialButton" onClick={() => this.setState({ showConfirmation: true })}>
    Start trial
  </EuiButton>
);

return (
  <EuiFlexItem>
    {this.acknowledgeModal()}
    <EuiCard
      title="Start a 30-day trial"
      description={description}
      footer={footer}
    />
  </EuiFlexItem>
);
export { LicenseDashboard } from './license_dashboard';

import React, { Fragment } from 'react';

import {
  EuiIcon,
  EuiFlexGroup,
  EuiFlexItem,
  EuiText,
  EuiTitle,
  EuiSpacer,
} from '@elastic/eui';

export class LicenseStatus extends React.PureComponent {
  render() {
    const { isExpired, status, type, expiryDate } = this.props;
    const typeTitleCase = type.charAt(0).toUpperCase() + type.substr(1).toLowerCase();
    let icon;
    let title;
    let message;
    if (isExpired) {
      icon = <EuiIcon color="danger" type="alert" />
      message = (<Fragment>
        Your license expired on <strong>{expiryDate}</strong>
      </Fragment>);
      title = `Your ${typeTitleCase} license has expired`;
    } else {
      icon = <EuiIcon color="success" type="checkInCircleFilled" />
      message = expiryDate ? (<Fragment>
        Your license will expire on <strong>{expiryDate}</strong>
      </Fragment>) : (<Fragment> Your license will never expire. </Fragment>);
    }
    return (<EuiFlexGroup>
      <EuiFlexItem>
        {icon}
      </EuiFlexItem>
      <EuiFlexItem>
        <EuiText size="m">
          {title}
        </EuiText>
        <EuiText>({message})</EuiText>
      </EuiFlexItem>
    </EuiFlexGroup>);
  }
}
title = 'Your `{typeTitleCase}` license is `{status.toLowerCase()}`;
}
return (  
<div>
  <EuiFlexGroup justifyContent="spaceAround">
    <EuiFlexItem grow={false}>
      <EuiFlexGroup alignItems="center" gutterSize="s">
        <EuiFlexItem grow={false}>{icon}</EuiFlexItem>
        <EuiFlexItem grow={false}>
          <EuiTitle size="l">
            <h2 data-test-subj="licenseText">{title}</h2>
          </EuiTitle>
        </EuiFlexItem>
      </EuiFlexGroup>
    </EuiFlexItem>
    <EuiFlexGroup justifyContent="spaceAround">
      <EuiFlexItem grow={false}>
        <span data-test-subj="licenseSubText">
          <EuiText color="subdued">{message}</EuiText>
        </span>
      </EuiFlexItem>
    </EuiFlexGroup>
  </EuiFlexGroup>
</div>  

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 */

import { LicenseStatus as PresentationComponent } from './license_status';
import { connect } from 'react-redux';
import { getLicense, getExpirationDateFormatted, isExpired } from '../../../store/reducers/licenseManagement';

const mapStateToProps = (state) => {
  const { isActive, type } = getLicense(state);
  return {
    status: isActive ? 'Active' : 'Inactive',
    type,
    isExpired: isExpired(state),
    expiryDate: getExpirationDateFormatted(state)
  };
};
export const LicenseStatus = connect(mapStateToProps)(PresentationComponent);
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 */

export { LicenseStatus } from './license_status.container';
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 */

import React from 'react';
import { BASE_PATH } from '../../../common/constants';
import {
  EuiButton,
  EuiButtonEmpty,
  EuiFilePicker,
  EuiForm,
  EuiSpacer,
  EuiConfirmModal,
  EuiOverlayMask,
  EuiText,
  EuiTitle,
  EuiFlexGroup,
  EuiFlexItem,
  EuiPanel
} from '@elastic/eui';

export class UploadLicense extends React.PureComponent {
  componentDidMount() {
    this.props.addUploadErrorMessage('');
  }

  send = acknowledge => {
    const file = this.file;
    const fr = new FileReader();
    fr.onload = ({ target: { result } }) => {
      this.props.uploadLicense(
        result,
        this.props.currentLicenseType,
        acknowledge
      );
    };
    fr.readAsText(file);
  };
}
cancel = () => {
  this.props.uploadLicenseStatus({});
};

acknowledgeModal() {
  const {
    needsAcknowledgement,
    messages: [firstLine, ...messages] = []
  } = this.props;
  if (!needsAcknowledgement) {
    return null;
  }
  return (
    <EuiOverlayMask>
      <EuiConfirmModal
        title="Confirm License Upload"
        onCancel={this.cancel}
        onConfirm={() => this.send(true)}
        cancelButtonText="Cancel"
        confirmButtonText="Confirm"
      >
        <div>
          <EuiText>{firstLine}</EuiText>
          <EuiText>
            <ul>
              {messages.map(message => <li key={message}>{message}</li>)}
            </ul>
          </EuiText>
        </div>
      </EuiConfirmModal>
    </EuiOverlayMask>
  );
}

errorMessage() {
  const { errorMessage } = this.props;
  if (!errorMessage) {
    return null;
  }
  return [errorMessage];
}

handleFile = ([file]) => {
  if (file) {
    this.props.addUploadErrorMessage('');
  }
  this.file = file;
};

submit = event => {
  event.preventDefault();
if (this.file) {
    this.send();
} else {
    this.props.addUploadErrorMessage('You must select a license file.');
}
};
render() {
    const { currentLicenseType, applying } = this.props;
    return (
        <div className="licenseManagement__contain">
            <EuiFlexGroup justifyContent="spaceAround">
                <EuiFlexItem grow={false}>
                    <EuiTitle size="l">
                        <h1>Upload your license</h1>
                    </EuiTitle>
                </EuiFlexItem>
            </EuiFlexGroup>
            <EuiSpacer />
            <EuiPanel>
                {this.acknowledgeModal()}
                <EuiText>
                    Your license key is a JSON file with a signature attached.
                </EuiText>
                <EuiText>
                    Uploading a license will replace your current {' '}
                    <strong>{currentLicenseType.toUpperCase()} license.</strong>
                </EuiText>
                <EuiSpacer />
                <EuiForm
                    isInvalid={!!this.errorMessage()}
                    error={this.errorMessage()}
                >
                    <EuiText>
                        <EuiFilePicker
                            id="licenseFile"
                            initialPromptText="Select or drag your license file"
                            onChange={this.handleFile}
                        />
                    </EuiText>
                    <EuiSpacer size="m" />
                    <EuiFlexGroup justifyContent="spaceBetween">
                        <EuiFlexItem grow={false}>
                            <EuiButtonEmpty href={`#${BASE_PATH}home`}>Cancel</EuiButtonEmpty>
                        </EuiFlexItem>...
                    </EuiFlexGroup>
                </EuiForm>
            </EuiPanel>
        </div>
    )
}
import { connect } from 'react-redux';
import { uploadLicense, uploadLicenseStatus } from '../../store/actions/upload_license';
import { addUploadErrorMessage } from '../../store/actions/add_error_message';

import {
  getUploadErrorMessage,
  getLicenseType,
  isInvalid,
  isApplying,
  uploadNeedsAcknowledgement,
  uploadMessages
} from '../../store/reducers/licenseManagement';

import { UploadLicense as PresentationComponent } from './upload_license';

const mapStateToProps = (state) => {
  return {
    isValid: isInvalid(state),
    needsAcknowledgement: uploadNeedsAcknowledgement(state),
    messages: uploadMessages(state),
    errorMessage: getUploadErrorMessage(state),
    applying: isApplying(state),
    currentLicenseType: getLicenseType(state) || ''
  };
};

const mapDispatchToProps = {
  addUploadErrorMessage,
  uploadLicense,
  uploadLicenseStatus,
};
export const UploadLicense = connect(mapStateToProps, mapDispatchToProps)(PresentationComponent);

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export { UploadLicense } from './upload_license.container';

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import chrome from 'ui/chrome';

import $ from 'jquery';

export function putLicense(license, acknowledge) {
    const options = {
        url: `${chrome.addBasePath('/api/license')}${acknowledge ? '?acknowledge=true' : ''}`,
        data: license,
        contentType: 'application/json',
        cache: false,
        crossDomain: true,
        type: 'PUT',
    };

    return $.ajax(options);
}

export function startBasic(acknowledge) {
    const options = {
        url: `${chrome.addBasePath('/api/license/start_basic')}${acknowledge ? '?acknowledge=true' : ''}`,
        contentType: 'application/json',
        cache: false,
        crossDomain: true,
        type: 'POST',
    };

    return $.ajax(options);
}

export function startTrial() {
    const options = {
        url: chrome.addBasePath('/api/license/start_trial'),
        contentType: 'application/json',
        cache: false,
    };

    return $.ajax(options);
}
```javascript
crossDomain: true,
type: 'POST',
};

return $.ajax(options);
}

export function canStartTrial() {
const options = {
  url: chrome.addBasePath(`/api/license/start_trial`),
  contentType: 'application/json',
  cache: false,
  crossDomain: true,
  type: 'GET',
};

return $.ajax(options);
}

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import React from 'react';
import { render, unmountComponentAtNode } from 'react-dom';
import { Provider } from 'react-redux';
import { HashRouter } from 'react-router-dom';
import { BASE_PATH } from '../common/constants/base_path';
import App from './app';
import routes from 'ui/routes';
import { XPackInfoProvider as xpackInfoProvider } from 'plugins/xpack_main/services/xpack_info';
import template from './main.html';
import { licenseManagementStore } from './store';

const renderReact = (elem, store) => {
  render(
    <Provider store={store}>
      <HashRouter>
        <App />
      </HashRouter>,
    elem
  );
};
```
This method handles the cleanup needed when route is scope is destroyed. It also prevents Angular from destroying scope when route changes and both old route and new route are this same route.

```javascript
const manageAngularLifecycle = ($scope, $route, elem) => {
  const lastRoute = $route.current;
  const deregister = $scope.$on('$locationChangeSuccess', () => {
    const currentRoute = $route.current;
    // if templates are the same we are on the same route
    if (lastRoute.$$route.template === currentRoute.$$route.template) {
      // this prevents angular from destroying scope
      $route.current = lastRoute;
    }
  });
  $scope.$on('$destroy', () => {
    deregister && deregister();
    // manually unmount component when scope is destroyed
    elem && unmountComponentAtNode(elem);
  });
};

routes
  .when(`${BASE_PATH}:view?`, {
    template: template,
    controllerAs: 'licenseManagement',
    controller: class LicenseManagementController {
      constructor($injector, $window, $rootScope, $scope, $route, kbnUrl) {
        let autoLogout = null;
        /* if security is disabled, there will be no autoLogout service,
        so just substitute noop function in that case */
        try {
          autoLogout = $injector.get('autoLogout');
        } catch (e) {
          autoLogout = () => {};
        }
        $scope.$$postDigest(() => {
          const elem = document.getElementById('licenseReactRoot');
          const xPackInfo = xpackInfoProvider($window, $injector, $injector.get('Private'));
          const initialState = { license: xPackInfo.get('license') };
          const kbnUrlWrapper = {
            change(url) {
              kbnUrl.change(url);
              $rootScope.$digest();
            }
          };
        });
    }
  });
```
const services = { autoLogout, xPackInfo, kbnUrl: kbnUrlWrapper };  
const store = licenseManagementStore(initialState, services);  
renderReact(elem, store);  
manageAngularLifecycle($scope, $route, elem);  
});  
})  
*/  

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*/

import React from 'react';
import { LicenseDashboard, UploadLicense } from './sections/';
import { Switch, Route } from 'react-router-dom';
import { BASE_PATH } from '../common/constants';
import {
EuiPage,
EuiPageBody,
} from '@elastic/eui';

export default () => (  
<EuiPage className="licenseManagement">
  <EuiPageBody className="licenseManagement__pageBody">
    <Switch>
      <Route path={`${BASE_PATH}upload_license`} component={UploadLicense}/>
      <Route path={`${BASE_PATH}`} component={LicenseDashboard}/>
    </Switch>
  </EuiPageBody>
</EuiPage>
);

<kbn-management-app section="elasticsearch/license_management">
  <div id="licenseReactRoot" class="licenseFeature"></div>
</kbn-management-app>

@import (reference) '~ui/styles/variables/colors';

.licenseFeature {
  flex-grow: 1;
  background: @globalColorLightestGray;
  min-height: 100vh;
}

.licenseManagement__pageBody {
  padding-top: 24px;
  min-height: auto;
}
import { management } from 'ui/management';
import { BASE_PATH } from '../common/constants';

management.getSection('elasticsearch').register('license_management', {
    visible: true,
    display: 'License Management',
    order: 4,
    url: `#${BASE_PATH}home`
});

import './management_section';
import './register_route';
import './styles/main.less';

export const uploadLicenseStatus = createAction('LICENSE_MANAGEMENT_UPLOAD_LICENSE_STATUS');

const genericUploadError = 'Error encountered uploading license:';
const dispatchFromResponse = async (response, dispatch, currentLicenseType, newLicenseType, { xPackInfo, kbnUrl }) => {
  const { error, acknowledged, license_status: licenseStatus, acknowledge } = response;
  if (error) {
    dispatch(uploadLicenseStatus({}));
    dispatch(addUploadErrorMessage(`${genericUploadError} ${error.reason}`));
  } else if (acknowledged) {
    if (licenseStatus === 'invalid') {
      dispatch(uploadLicenseStatus({}));
      dispatch(addUploadErrorMessage('The supplied license is not valid for this product.'));
    } else if (licenseStatus === 'expired') {
      dispatch(uploadLicenseStatus({}));
      dispatch(addUploadErrorMessage('The supplied license has expired.'));
    } else {
      await xPackInfo.refresh();
      dispatch(addLicense(xPackInfo.get('license')));
      dispatch(uploadLicenseStatus({}));
      kbnUrl.change(BASE_PATH);
      // reload necessary to get left nav to refresh with proper links
      window.location.reload();
    }
  } else {
    // first message relates to command line interface, so remove it
    const messages = Object.values(acknowledge).slice(1);
    // messages can be in nested arrays
    const first = 'Some functionality will be lost if you replace your
    ${currentLicenseType.toUpperCase()} license with a
    ${newLicenseType.toUpperCase()} license.  Review the list of features below.';
    dispatch(uploadLicenseStatus({ acknowledge: true, messages: [ first, ...messages] }));
  }
};

export const uploadLicense = (licenseString, currentLicenseType, acknowledge) => async (dispatch, getState, services) => {
  dispatch(uploadLicenseStatus({ applying: true }));
  let newLicenseType = null;
  try {
    ({ type: newLicenseType } = JSON.parse(licenseString).license);
  } catch (err) {
    dispatch(uploadLicenseStatus({}));
    return dispatch(addUploadErrorMessage(`${genericUploadError} Check your license file.`));
  }
  try {
    const response = await putLicense(licenseString, acknowledge);
    await dispatchFromResponse(response, dispatch, currentLicenseType, newLicenseType, services);
  } catch (err) {
    const message = (err.responseJSON && err.responseJSON.error.reason) ? err.responseJSON.error.reason :
  ...}
'Unknown error.';
    dispatch(uploadLicenseStatus({}));
    dispatch(addUploadErrorMessage(`${genericUploadError} ${message}`));
}
};
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 */

import { createAction } from 'redux-actions';
import { startBasic } from './lib/es';
import { toastNotifications } from 'ui/notify';

export const startBasicLicenseStatus = createAction('LICENSE_MANAGEMENT_START_BASIC_LICENSE_STATUS');

export const cancelStartBasicLicense = createAction('LICENSE_MANAGEMENT_CANCEL_START_BASIC_LICENSE');

export const startBasicLicense = (currentLicenseType, ack) => async (dispatch,
    getState,
    { xPackInfo }) => {
    /*eslint camelcase: 0*/
    const { acknowledged, basic_was_started, error_message, acknowledge } = await startBasic(ack);
    if (acknowledged) {
        if (basic_was_started) {
            await xPackInfo.refresh();
            // reload necessary to get left nav to refresh with proper links
            window.location.reload();
        } else {
            return toastNotifications.addDanger(error_message);
        }
    } else {
        //messages coming back in arrays
        const messages = Object.values(acknowledge).slice(1).map((item) => {
            return item[0];
        });
        const first = 'Some functionality will be lost if you replace your
        ${currentLicenseType.toUpperCase()} license with a
        BASIC license. Review the list of features below.';
        dispatch(startBasicLicenseStatus({ acknowledge: true, messages: [ first, ...messages ] }));
    }
}
import { createAction } from 'redux-actions';

export const addLicense =
  createAction('LICENSE_MANAGEMENT_ADD_LICENSE');
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export { uploadLicense } from './upload_license';
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import { createAction } from 'redux-actions';
import { canStartTrial, startTrial } from '../../lib/es';
import { toastNotifications } from 'ui/notify';

export const trialStatusLoaded = createAction(
  'LICENSE_MANAGEMENT_TRIAL_STATUS_LOADED'
);

export const loadTrialStatus = () => async dispatch => {
  const trialOK = await canStartTrial();
  dispatch(trialStatusLoaded(trialOK));
};

export const startLicenseTrial = () => async (dispatch,
  getState,
  { xPackInfo }
) => {
  /*eslint camelcase: 0*/
  const { trial_was_started, error_message } = await startTrial();
  if (trial_was_started) {
    await xPackInfo.refresh();
    // reload necessary to get left nav to refresh with proper links
  }
};
window.location.reload();

else {
  return toastNotifications.addDanger(error_message);
}

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import { createAction } from 'redux-actions';

export const addUploadErrorMessage =
  createAction('LICENSE_MANAGEMENT_ADD_UPLOAD_ERROR_MESSAGE');

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import { handleActions } from 'redux-actions';

import { trialStatusLoaded } from '../actions/start_trial';

export const trialStatus = handleActions({
  [trialStatusLoaded](state, { payload }) {
    return {
      canStartTrial: payload
    },
  },}

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import { combineReducers } from 'redux';

import { license } from './license';

import { uploadStatus } from './upload_status';

import { startBasicStatus } from './start_basic_license_status';

import { uploadErrorMessage } from './upload_error_message';

import { trialStatus } from './trial_status';

import moment from 'moment-timezone';

export const WARNING_THRESHOLD_IN_DAYS = 25;

export const WARNING_THRESHOLD_IN_DAYS = 25;
export const licenseManagement = combineReducers({
  license,
  uploadStatus,
  uploadErrorMessage,
  trialStatus,
  startBasicStatus
});

export const getLicense = state => {
  return state.license;
};

export const getLicenseType = state => {
  return getLicense(state).type;
};

export const getExpirationMillis = state => {
  return getLicense(state).expiryDateInMillis;
};

export const getExpirationDate = state => {
  // basic licenses do not expire
  if (getLicenseType(state) === 'basic') {
    return null;
  }
  const expirationMillis = getExpirationMillis(state);
  if (expirationMillis) {
    return moment.tz(getExpirationMillis(state), moment.tz.guess());
  } else {
    return null;
  }
};

export const getExpirationDateFormatted = state => {
  const expirationDate = getExpirationDate(state);
  return expirationDate ? expirationDate.format('LLL z') : null;
};

export const isExpired = state => {
  return new Date().getTime() > getExpirationMillis(state);
};

export const isImminentExpiration = state => {
  const now = new Date();
  const expirationDate = getExpirationDate(state);
  return (expirationDate &&
    expirationDate.isAfter(now) &&

expirationDate.diff(now, 'days') <= WARNING_THRESHOLD_IN_DAYS
);

export const shouldShowRevertToBasicLicense = state => {
    const { type } = getLicense(state);
    return type === 'trial' || isInMminentExpiration(state) || isExpired(state);
};

export const uploadNeedsAcknowledgement = state => {
    return !!state.uploadStatus.acknowledge;
};

export const isApplying = state => {
    return !!state.uploadStatus.applying;
};

export const uploadMessages = state => {
    return state.uploadStatus.messages;
};

export const isInvalid = state => {
    return !!state.uploadStatus.invalid;
};

export const getUploadErrorMessage = state => {
    return state.uploadErrorMessage;
};

export const shouldShowStartTrial = state => {
    const licenseType = getLicenseType(state);
    return (state.trialStatus.canStartTrial &&
        licenseType !== 'trial' &&
        //don't show for platinum unless it is expired
        (licenseType !== 'platinum' || isExpired(state)));
};

export const shouldShowRequestTrialExtension = state => {
    if (!state.trialStatus.canStartTrial) {
        return false;
    }
    const { type } = getLicense(state);
    return type !== 'platinum' && isExpired(state);
};

export const startTrialError = state => {

return state.trialStatus.startTrialError;
};

export const startBasicLicenseNeedsAcknowledgement = state => {
    return !!state.startBasicStatus.acknowledge;
};

export const getStartBasicMessages = state => {
    return state.startBasicStatus.messages;
};
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import { handleActions } from 'redux-actions';

import { startBasicLicenseStatus, cancelStartBasicLicense } from '../actions/start_basic';

export const startBasicStatus = handleActions({
    [startBasicLicenseStatus](state, { payload }) {
        return payload;
    },
    [cancelStartBasicLicense]() {
        return {};
    },
});
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import { handleActions } from 'redux-actions';

import { uploadLicenseStatus } from '../actions/upload_license';

export const uploadStatus = handleActions({
    [uploadLicenseStatus](state, { payload }) {
        return payload;
    }
});
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*/
import { handleActions } from 'redux-actions';

import { addLicense } from './actions/add_license';

export const license = handleActions(
  [addLicense](state, { payload }) {
    return payload;
  },
  {});
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import { handleActions } from 'redux-actions';

import { addUploadErrorMessage } from './actions/add_error_message';

export const uploadErrorMessage = handleActions(
  [addUploadErrorMessage](state, { payload }) {
    return payload;
  },
  '');
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export { licenseManagement } from './licenseManagement';
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import { createStore, applyMiddleware, compose } from 'redux';
import thunk from 'redux-thunk';
import { licenseManagement } from './reducers/';

export const licenseManagementStore = (initialState = {}, services = {}) => {
  const enhancers = [
    applyMiddleware(thunk.withExtraArgument(services))
  ];
  window.__REDUX_DEVTOOLS_EXTENSION__ &&
  enhancers.push(window.__REDUX_DEVTOOLS_EXTENSION__());

  return createStore(licenseManagement, initialState, compose(...enhancers));
};

export default licenseManagementStore;
return createStore(
  licenseManagement,
  initialState,
  compose(...enhancers)
);
};
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export { licenseManagementStore } from './store';
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import { RequestTrialExtension } from '../public/sections/license_dashboard/request_trial_extension';
import { createMockLicense, getComponent } from './util';

describe('RequestTrialExtension component', () => {
  test('should not display when license is active and trial has not been used', () => {
    const rendered = getComponent(
      {
        trialStatus: {
          canStartTrial: true
        },
        license: createMockLicense('trial')
      },
      RequestTrialExtension
    );
    const html = rendered.html();
    expect(html).toBeNull();
  });
  test('should display when license is active and trial has been used', () => {
    const rendered = getComponent(
      {
        trialStatus: {
          canStartTrial: false
        },
        license: createMockLicense('trial')
      },
      RequestTrialExtension
    );
    const html = rendered.html();
    expect(html).not.toBeNull();
  });
});
expect(html).toMatchSnapshot();
});
test('should not display when license is not active and trial has not been used', () => {
  const rendered = getComponent(
    {
      trialStatus: {
        canStartTrial: true
      },
      license: createMockLicense('trial', 0)
    },
    RequestTrialExtension
  );
  const html = rendered.html();
  expect(html).toBeNull();
});
test('should display when license is not active and trial has been used', () => {
  const rendered = getComponent(
    {
      trialStatus: {
        canStartTrial: false
      },
      license: createMockLicense('trial', 0)
    },
    RequestTrialExtension
  );
  const html = rendered.html();
  expect(html).not.toBeNull();
  expect(html).toMatchSnapshot();
});
test('should display when platinum license is not active and trial has been used', () => {
  const rendered = getComponent(
    {
      trialStatus: {
        canStartTrial: false
      },
      license: createMockLicense('platinum', 0)
    },
    RequestTrialExtension
  );
  const html = rendered.html();
  expect(html).not.toBeNull();
  expect(html).toMatchSnapshot();
});
test('should not display when platinum license is active and trial has been used', () => {
  const rendered = getComponent(
    {
      trialStatus: {
        canStartTrial: false
      },
      license: createMockLicense('platinum', 0)
    },
    RequestTrialExtension
  );
  const html = rendered.html();
  expect(html).not.toBeNull();
  expect(html).toMatchSnapshot();
});
import { mount } from 'enzyme';
import React from 'react';
import { Provider } from 'react-redux';
import { uploadLicense } from '../public/store/actions/upload_license';
import { licenseManagementStore } from '../public/store/store';
import { UploadLicense } from '../public/sections/upload_license';
import { BASE_PATH } from '../common/constants';
import {
  UPLOAD_LICENSE_EXPIRED,
  UPLOAD_LICENSE_REQUIRES_ACK,
  UPLOAD_LICENSE_SUCCESS,
  UPLOAD_LICENSE_TLS_NOT_ENABLED,
  UPLOAD_LICENSE_INVALID,
} from './api_responses';

import sinon from 'sinon';
window.location.reload = () => {};  
let server = null;
let store = null;
let component = null;
const services = {
  kbnUrl: {
    change: jest.fn()
  },
  autoLogout: () => {},
  xPackInfo: {
    refresh: jest.fn(),
    get: () => {
      return { license: { type: 'basic' } };
    }
  }
};
describe('UploadLicense', () => {
  beforeEach(() => {
    server = sinon.fakeServer.create();
    server.respondImmediately = true;
    store = licenseManagementStore({}, services);
    component = (
      <Provider store={store}>
        <UploadLicense />
      </Provider>
    );
  });
  afterEach(() => {
    server.restore();
    services.xPackInfo.refresh.mockReset();
    services.kbnUrl.change.mockReset();
  });
  it('should display an error when submitting invalid JSON', async () => {
    const rendered = mount(component);
    store.dispatch(uploadLicense('INVALID', 'trial'));
    rendered.update();
    expect(rendered).toMatchSnapshot();
  });
  it('should display an error when ES says license is invalid', async () => {
    const rendered = mount(component);
    const invalidLicense = JSON.stringify({ license: { type: 'basic' } });
    server.respond(UPLOAD_LICENSE_INVALID);
    await uploadLicense(invalidLicense)(store.dispatch, null, services);
    rendered.update();
    expect(rendered).toMatchSnapshot();
  });
  it('should display an error when ES says license is expired', async () => {
    const rendered = mount(component);
    const invalidLicense = JSON.stringify({ license: { type: 'basic' } });
    server.respond(UPLOAD_LICENSE_EXPIRED);
    await uploadLicense(invalidLicense)(store.dispatch, null, services);
    rendered.update();
    expect(rendered).toMatchSnapshot();
  });
  it('should display a modal when license requires acknowledgement', async () => {
    const unacknowledgedLicense = JSON.stringify(
      { license: { type: 'basic' } }
    );
    server.respond(UPLOAD_LICENSE_REQUIRES_ACK);
    await uploadLicense(unacknowledgedLicense, 'trial')(store.dispatch, null, services);
  });
});
const rendered = mount(component);
expect(rendered).toMatchSnapshot();
});
it('should refresh xpack info and navigate to BASE_PATH when ES accepts new license', async () => {
  const validLicense = JSON.stringify({ license: { type: 'basic' } });
  server.respond(UPLOAD_LICENSE_SUCCESS);
  await uploadLicense(validLicense)(store.dispatch, null, services);
  expect(services.xPackInfo.refresh).toHaveBeenCalled();
  expect(services.kbnUrl.change).toHaveBeenCalledWith(BASE_PATH);
});
it('should display error when ES returns error', async () => {
  const rendered = mount(component);
  const license = JSON.stringify({ license: { type: 'basic' } });
  server.respond(UPLOAD_LICENSE_TLS_NOT_ENABLED);
  await uploadLicense(license)(store.dispatch, null, services);
  rendered.update();
  expect(rendered).toMatchSnapshot();
});
*/

import { AddLicense } from '../public/sections/license_dashboard/add_license';
import { createMockLicense, getComponent } from './util';

describe('AddLicense component when license is active', () => {
  test('should display correct verbiage', () => {
    const rendered = getComponent(
      {
        license: createMockLicense('basic')
      },
      AddLicense
    );
    expect(rendered.html()).toMatchSnapshot();
  });
});

describe('AddLicense component when license is expired', () => {
  test('should display with correct verbiage', () => {
    const rendered = getComponent(
      {
        license: createMockLicense('platinum', 0)
      },
      AddLicense
    );
  });
});
export const UPLOAD_LICENSE_EXPIRED = [200,
  {'Content-Type': 'application/json'},
  {'"acknowledged": "true", "license_status": "expired"'}
];

export const UPLOAD_LICENSE_REQUIRES_ACK = [200,
  {'Content-Type': 'application/json'},
  `{ "acknowledged":false,"license_status":"valid","acknowledge":
    {
      "message": "This license update requires acknowledgement. To acknowledge the license, please read the
      following messages and update the license again, this time with the \"acknowledge=true\" parameter:",
      "watcher": ["Watcher will be disabled"]
    }
  }
];

export const UPLOAD_LICENSE_SUCCESS = [200,
  {'Content-Type': 'application/json'},
  {'"acknowledged": "true", "license_status": "valid"'}
];

export const UPLOAD_LICENSE_INVALID = [200,
  {'Content-Type': 'application/json'},
  {'"acknowledged": "true", "license_status": "invalid"'}
];

export const UPLOAD_LICENSE_TLS_NOT_ENABLED = [200,
  {'Content-Type': 'application/json'},
  `{ "acknowledged":false,"license_status":null,"acknowledge":
    {
      "message": "License update failed: This license update requires acknowledgement but the license has not
      been acknowledged. To acknowledge the license, please read the following messages and update the
      license again, this time with the \"acknowledge=true\" parameter:",
      "watcher": ["Watcher will be disabled"]
    }
  }
];
"error":
{
"root_cause":
[
  "type":"illegal_state_exception",
  "reason":"Can not upgrade to a production license unless TLS is configured or security is disabled"],
  "type":"illegal_state_exception",
  "reason":"Can not upgrade to a production license unless TLS is configured or security is disabled"],
  "status":500
}

/*
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* or more contributor license agreements. Licensed under the Elastic License;
* you may not use this file except in compliance with the Elastic License.
*/

export * from './upload_license';
// Jest Snapshot v1, https://goo.gl/fbAQLP

exports['UploadLicense should display a modal when license requires acknowledgement 1'] = `<Provider
  store={
    Object {
      "dispatch": [Function],
      "getState": [Function],
      "replaceReducer": [Function],
      "subscribe": [Function],
      Symbol(observable): [Function],
    }
  }
>
  <Connect(UploadLicense)>
  <UploadLicense
    addUploadErrorMessage={[Function]}
    applying={false}
    currentLicenseType=""
    errorMessage=""
    isInvalid={false}
    messages={
      Array [
        "Some functionality will be lost if you replace your TRIAL license with a BASIC license. Review the list of features below.",
        Array [
          "Watcher will be disabled",
        ],
      ]
    }
  >
`
needsAcknowledgement={true}
uploadLicense={()}
uploadLicenseStatus={()}

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</EuiFlexItem>
</EuiFlexGroup>
</div>

</EuiSpacer>
Some functionality will be lost if you replace your TRIAL license with a BASIC license. Review the list of features below.
Watcher will be disabled
Your license key is a JSON file with a signature attached.
Uploading a license will replace your current license.

```xml
<strong>
  Uploading a license will replace your current license.
</strong>
```

```xml
</EuiText>
</EuiSpacer>
</EuiForm>
```

```xml
<big>
  Select or drag your license file
</big>
```

```xml
<input
  className="euiFilePicker__input"
  id="licenseFile"
  onChange={Function}
  onDragLeave={Function}
  onDragOver={Function}
  onDrop={Function}
  type="file"
/>
```

```xml
</div>
```

```xml
</div>
```
Select or drag your license file

<div>
  <EuiFilePicker>
  </EuiFilePicker>
</div>

<div>
  <EuiText>
  Select or drag your license file
  </EuiText>
</div>

<div>
  <EuiSpacer size="m"
>
    <div className="euiSpacer euiSpacer--m"
  
    
    </EuiSpacer>
</div>

<div>
  <EuiFlexGroup
    alignItems="stretch"
    component="div"
    direction="row"
    gutterSize="l"
    justifyContent="spaceBetween"
    responsive={[true]}
    wrap={[false]}
  
  
    <div className="euiFlexGroup euiFlexGroup--gutterLarge euiFlexGroup--justifyContentSpaceBetween euiFlexGroup--directionRow euiFlexGroup--responsive"

  
    <EuiFlexItem
      component="div"
      grow={[false]}
  
    
    </div>

  
    <div className="euiFlexItem euiFlexItem--flexGrowZero"

    
    <EuiButtonEmpty
      color="primary"
      href="#/management/elasticsearch/license_management/home"
      iconSide="left"
      type="button"
  
    
      <a className="euiButtonEmpty euiButtonEmpty--primary"
        href="#/management/elasticsearch/license_management/home"

    
      <span className="euiButtonEmpty__content"
exports['UploadLicense should display an error when ES says license is expired'] = `  <div className="licenseManagement__contain">
    <div className="euiFlexGroup euiFlexGroup--gutterLarge euiFlexGroup--justifyContentSpaceAround euiFlexGroup--directionRow euiFlexGroup--responsive">
      <div>
        <EuiFlexItem
Upload your license

Your license key is a JSON file with a signature attached.
Uploading a license will replace your current license.

Please address the errors in your form.

Please address the errors in your form.
The supplied license has expired.

The supplied license has expired.

The supplied license has expired.

Select or drag your license file.
exports['UploadLicense should display an error when ES says license is invalid 1'] = ` 
<Provider
store={
  Object {
    "dispatch": [Function],
    "getState": [Function],
    "replaceReducer": [Function],
    "subscribe": [Function],
    Symbol(observable): [Function],
  }
}
>
</Connect(UploadLicense)>
<UploadLicense
  addUploadErrorMessage={[Function]}
  applying={[false]}
  currentLicenseType=""
  errorMessage="The supplied license is not valid for this product."
  isInvalid={[false]}
  needsAcknowledgement={[false]}
  uploadLicense={[Function]}
  uploadLicenseStatus={[Function]}
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Upload your license

Your license key is a JSON file with a signature attached. Uploading a license will replace your current license.

Uploading a license will replace your current license.
<EuiSpacer size="l" />
</EuiSpacer>
<EuiForm error={
  Array [
    "The supplied license is not valid for this product."
  ]
} isInvalid={true} >
  <div className="euiForm">
    <EuiCallOut className="euiForm__errors" color="danger" size="m" title="Please address the errors in your form." >
      <div className="euiCallOut euiCallOut--danger euiForm__errors">
        <div className="euiCallOutHeader">
          <span className="euiCallOutHeader__title">Please address the errors in your form.</span>
        </div>
        <EuiText grow={true} size="s">
          <ul>
            <li className="euiForm__error" key="The supplied license is not valid for this product." >
            </li>
          </ul>
        </EuiText>
      </div>
    </EuiCallOut>
  </div>
</EuiForm>
The supplied license is not valid for this product.
Select or drag your license file
exports['UploadLicense should display an error when submitting invalid JSON 1'] =

<Provider
store={
  Object {
  
  
``
"dispatch": [Function],
"getState": [Function],
"replaceReducer": [Function],
"subscribe": [Function],
Symbol(observable): [Function],
}
}
>
<Connect(UploadLicense)>
<UploadLicense
  addUploadErrorMessage={[Function]}
  applying={false}
  currentLicenseType="" 
  errorMessage="Error encountered uploading license: Check your license file.,"
  isInvalid={false}
  needsAcknowledgement={false}
  uploadLicense={[Function]}
  uploadLicenseStatus={[Function]}
>
<
  className="licenseManagement__contain"
>
<
  <EuiFlexGroup
    alignItems="stretch"
    component="div"
    direction="row"
    gutterSize="l"
    justifyContent="spaceAround"
    responsive={true}
    wrap={false}
  >
    <
      <EuiFlexItem
        component="div"
        grow={false}
      >
        <
          <div
            className="euiFlexItem euiFlexItem--flexGrowZero"
          >
            <EuiTitle
              size="l"
            >
              <h1
                className="euiTitle euiTitle--large"
              >
            </h1>
          </div>
        </EuiFlexItem>
      </EuiFlexItem>
    </
</div>
Upload your license

Your license key is a JSON file with a signature attached.

Uploading a license will replace your current

Uploading a license will replace your current

Uploading a license will replace your current
Error encountered uploading license: Check your license file.
exports['UploadLicense should display error when ES returns error 1'] = `  
<Provider  
store={  
  Object {  
    "dispatch": [Function],  
    "getState": [Function],  
    "replaceReducer": [Function],  
    "subscribe": [Function],  
    Symbol(observable): [Function],  
  }  
};  

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10281
<Connect(UploadLicense> 
  <UploadLicense 
    addUploadErrorMessage={[Function]} 
    applying={false} 
    currentLicenseType="" 
    errorMessage="Error encountered uploading license: Can not upgrade to a production license unless TLS is configured or security is disabled" 
    isInvalid={false} 
    needsAcknowledgement={false} 
    uploadLicense={[Function]} 
    uploadLicenseStatus={[Function]} 
  > 
  <div 
    className="licenseManagement__contain" 
  > 
    <EuiFlexGroup 
      alignItems="stretch" 
      component="div" 
      direction="row" 
      gutterSize="l" 
      justifyContent="spaceAround" 
      responsive={true} 
      wrap={false} 
    > 
      <div 
        className="euiFlexGroup euiFlexGroup--gutterLarge euiFlexGroup--justifyContentSpaceAround euiFlexGroup--directionRow euiFlexGroup--responsive" 
      > 
        <EuiFlexItem 
          component="div" 
          grow={false} 
        > 
          <div 
            className="euiFlexItem euiFlexItem--flexGrowZero" 
          > 
            <EuiTitle 
              size="l" 
            > 
              <h1 
                className="euiTitle euiTitle--large" 
              > 
                Upload your license 
              </h1> 
            </EuiTitle> 
          </div> 
        </EuiFlexItem> 
      </div> 
    </EuiFlexGroup> 
  </div> 
</Connect(UploadLicense>
Your license key is a JSON file with a signature attached.

Uploading a license will replace your current license.
"Error encountered uploading license: Can not upgrade to a production license unless TLS is configured or security is disabled", isInvalid={true}

<div className="euiForm"

  <EuiCallOut
    className="euiForm__errors"
    color="danger"
    size="m"
    title="Please address the errors in your form."

  <div
    className="euiCallOut euiCallOut--danger euiForm__errors"

  <div
    className="euiCallOutHeader"

  <span
    className="euiCallOutHeader__title"

    Please address the errors in your form.

  </span>

  <div
    <EuiText
      grow={true}
      size="s"

    <div
      className="euiText euiText--small"

    <ul>
      <li
        className="euiForm__error"
        key="Error encountered uploading license: Can not upgrade to a production license unless TLS is configured or security is disabled"

          Error encountered uploading license: Can not upgrade to a production license unless TLS is configured or security is disabled

      </li>

      </ul>

    </EuiText>

    </div>

  </EuiCallOut>
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exports['RevertToBasic component should display when trial is active 1'] = ""<div class="euiFlexItem"><div class="euiCard euiCard--centerAligned"><span class="euiCard__content"><span class="euiTitle euiTitle--medium euiCard__title">Revert to Basic license</span><div class="euiText euiText--small euiCard__description"><p>You'll revert to our free features and lose access to security, machine learning and other <a class="euiLink euiLink--primary" href="https://www.elastic.co/subscriptions/xpack" target="_blank" rel="noopener noreferrer">Platinum features</a>. </p></div><span class="euiCard__footer"><button class="euiButton euiButton--primary" type="button" data-test-subj="revertToBasicButton"><span class="euiButton__content"><span class="euiButton__text">Revert to Basic</span></span></button></span></div></div>";

exports['AddLicense component when license is active should display correct verbiage 1'] = ""<div class="euiCard euiCard--centerAligned"><span class="euiCard__content"><span class="euiTitle euiTitle--medium euiCard__title">Update your license</span><div class="euiText euiText--small euiCard__description"><p>If you already have a new license, upload it now.</p></div><span class="euiCard__footer"><a class="euiButton euiButton--primary" href="/management/elasticsearch/license_management/upload_license" data-test-subj="updateLicenseButton" style="margin-top: auto;">Update license</a></span></div>";

exports['AddLicense component when license is expired should display with correct verbiage 1'] = ""<div class="euiCard euiCard--centerAligned"><span class="euiCard__content"><span class="euiTitle euiTitle--medium euiCard__title">Update your license</span><div class="euiText euiText--small euiCard__description"><p>If you already have a new license, upload it now.</p></div><span class="euiCard__footer"><a class="euiButton euiButton--primary" href="/management/elasticsearch/license_management/upload_license" data-test-subj="updateLicenseButton" style="margin-top: auto;">Update license</a></span></div>";

exports['StartTrial component when trial is allowed display for basic license 1'] = ""<div class="euiFlexItem"><div class="euiCard euiCard--centerAligned"><span class="euiCard__content"><span class="euiTitle euiTitle--medium euiCard__title">Start a 30-day trial</span><div class="euiText euiText--small euiCard__description"><p>Experience what security, machine learning, and all our other <a class="euiLink euiLink--primary" href="https://www.elastic.co/subscriptions/xpack" target="_blank" rel="noopener noreferrer">Platinum features</a> have to offer.</p></div><span class="euiCard__footer"><button class="euiButton euiButton--primary" type="button" data-test-subj="startTrialButton"><span class="euiButton__content"><span class="euiButton__text">Start</span></span></button></span></div></div>";
exports['StartTrial component when trial is allowed should display for expired platinum license 1'] = "<div class="euiFlexItem">
  <div class="euiCard euiCard--centerAligned">
    <span class="euiCard__content">
      <span class="euiTitle euiTitle--medium euiCard__title">Start a 30-day trial</span>
      <div class="euiText euiText--small euiCard__description">
        Experience what security, machine learning, and all our other <a class="euiLink euiLink--primary" href="https://www.elastic.co/subscriptions/xpack" target="_blank" rel="noopener noreferrer">Platinum features</a> have to offer.
      </div>
    </span>
    <span class="euiCard__footer">
      <button class="euiButton euiButton--primary" type="button" data-test-subj="startTrialButton">
        Start trial
      </button>
    </span>
  </div>
</div>";

exports['StartTrial component when trial is allowed should display for gold license 1'] = "<div class="euiFlexItem">
  <div class="euiCard euiCard--centerAligned">
    <span class="euiCard__content">
      <span class="euiTitle euiTitle--medium euiCard__title">Start a 30-day trial</span>
      <div class="euiText euiText--small euiCard__description">
        Experience what security, machine learning, and all our other <a class="euiLink euiLink--primary" href="https://www.elastic.co/subscriptions/xpack" target="_blank" rel="noopener noreferrer">Platinum features</a> have to offer.
      </div>
    </span>
    <span class="euiCard__footer">
      <button class="euiButton euiButton--primary" type="button" data-test-subj="startTrialButton">
        Start trial
      </button>
    </span>
  </div>
</div>";

exports['LicenseStatus component should display display warning is expired 1'] = "<div class="euiFlexGroup euiFlexGroup--gutterLarge euiFlexGroup--justifyContentSpaceAround euiFlexGroup--directionRow euiFlexGroup--responsive">
  <div class="euiFlexItem euiFlexItem--flexGrowZero">
    <div class="euiFlexGroup euiFlexGroup--gutterSmall euiFlexGroup--alignItemsCenter euiFlexGroup--directionRow euiFlexGroup--responsive">
      <div class="euiFlexItem euiFlexItem--flexGrowZero">
        <svg class="euiIcon euiIcon--medium euiIcon--danger" focusable="true" xmlns="http://www.w3.org/2000/svg" width="16" height="16">
          <g fill-rule="evenodd">
            <path d="M7.5 2.236L1.618 14h11.764L7.5 2.236zm.894-.447l5.882 11.764A1 1 0 0 1 13.382 15H1.618a1 1 0 0 1-.894-1.447L6.606 1.789a1 1 0 0 1 1.788 0z"></path>
            <path d="M7 6h1v5H7zM7 12h1v1H7z"></path>
          </g>
        </svg>
      </div>
      <div class="euiFlexItem">
        <h2 data-test-subj="licenseText" class="euiTitle euiTitle--large">Your Platinum license has expired</h2>
      </div>
    </div>
    <div class="euiSpacer euiSpacer--l"></div>
  </div>
</div>";

exports['LicenseStatus component should display normally when license is active 1'] = "<div class="euiFlexGroup euiFlexGroup--gutterLarge euiFlexGroup--justifyContentSpaceAround euiFlexGroup--directionRow euiFlexGroup--responsive">
  <div class="euiFlexItem euiFlexItem--flexGrowZero">
    <div class="euiFlexGroup euiFlexGroup--gutterSmall euiFlexGroup--alignItemsCenter euiFlexGroup--directionRow euiFlexGroup--responsive">
      <div class="euiFlexItem euiFlexItem--flexGrowZero">
        <svg class="euiIcon euiIcon--medium euiIcon--success" focusable="true" xmlns="http://www.w3.org/2000/svg" width="16" height="16">
          <g fill-rule="evenodd">
            <path d="M7.5 2.236L1.618 14h11.764L7.5 2.236zm.894-.447l5.882 11.764A1 1 0 0 1 13.382 15H1.618a1 1 0 0 1-.894-1.447L6.606 1.789a1 1 0 0 1 1.788 0z"></path>
            <path d="M7 6h1v5H7zM7 12h1v1H7z"></path>
          </g>
        </svg>
      </div>
      <div class="euiFlexItem">
        <h2 data-test-subj="licenseText" class="euiTitle euiTitle--large">Your Platinum license is active</h2>
      </div>
    </div>
    <div class="euiSpacer euiSpacer--l"></div>
  </div>
</div>";
import { RevertToBasic } from '../public/sections/license_dashboard/revert_to_basic';
import { createMockLicense, getComponent } from './util';

describe('RevertToBasic component', () => {
  test('should display when trial is active', () => {  
    const rendered = getComponent(
      {
        license: createMockLicense('trial')
      },
      RevertToBasic
    );
    expect(rendered.html()).toMatchSnapshot();
  });
  test('should display when license is expired', () => {  
    const rendered = getComponent(
      {
        license: createMockLicense('platinum', 0)
      },
      RevertToBasic
    );
    expect(rendered.html()).toMatchSnapshot();
  });
  test('should display when license is about to expire', () => {  
    // ten days from now
    const imminentExpirationTime = new Date().getTime() + (10 * 24 * 60 * 60 * 1000);
    const rendered = getComponent(
      {
        license: createMockLicense('platinum', imminentExpirationTime)
      },
      RevertToBasic
    );
    expect(rendered.html()).toMatchSnapshot();
  });
  test('should not display for active basic license', () => {  
    const rendered = getComponent(
      {
        license: createMockLicense('basic')
      },
      RevertToBasic
    );
    expect(rendered.html()).toBeNull();
  });
  test('should not display for active gold license', () => {  
    const rendered = getComponent(  
    });
import { LicenseStatus } from '../public/sections/license_dashboard/license_status';
import { createMockLicense, getComponent } from './util';

describe('LicenseStatus component', () => {
  test('should display normally when license is active', () => {
    const rendered = getComponent(
      {
        license: createMockLicense('gold')
      },
      LicenseStatus
    );
    expect(rendered.html()).toMatchSnapshot();
  });
  test('should display display warning is expired', () => {
    const rendered = getComponent(
      {
        license: createMockLicense('platinum', 0)
      },
      LicenseStatus
    );
    expect(rendered.html()).toMatchSnapshot();
  });
});

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 */
import { Provider } from 'react-redux';
import { licenseManagementStore } from '../public/store/store';
import React from 'react';
import { mount } from 'enzyme';

const highExpirationMillis = new Date('October 13, 2099 00:00:00Z').getTime();

export const createMockLicense = (type, expiryDateInMillis = highExpirationMillis) => {
    return {
        type,
        expiryDateInMillis,
        isActive: new Date().getTime() < expiryDateInMillis
    };
};

export const getComponent = (initialState, Component) => {
    const store = licenseManagementStore(initialState);
    return mount(<Provider store={store}><Component /></Provider>);
};

import { StartTrial } from '../public/sections/license_dashboard/start_trial';
import { createMockLicense, getComponent } from './util';

describe('StartTrial component when trial is allowed', () => {
    test('display for basic license', () => {
        const rendered = getComponent(

"Open Source Used In Open Source Used In Managed Services Accelerator 3.5.1"
"10294"

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export const createMockLicense = (type, expiryDateInMillis = highExpirationMillis) => {
    return {
        type,
        expiryDateInMillis,
        isActive: new Date().getTime() < expiryDateInMillis
    };
};

export const getComponent = (initialState, Component) => {
    const store = licenseManagementStore(initialState);
    return mount(<Provider store={store}><Component /></Provider>);
};

import { StartTrial } from '../public/sections/license_dashboard/start_trial';
import { createMockLicense, getComponent } from './util';

describe('StartTrial component when trial is allowed', () => {
    test('display for basic license', () => {
        const rendered = getComponent(

"Open Source Used In Open Source Used In Managed Services Accelerator 3.5.1"
"10294"
test('should display for gold license', () => {
    const rendered = getComponent(
        {
            license: createMockLicense('gold'),
            trialStatus: { canStartTrial: true }
        },
        StartTrial
    );
    expect(rendered.html()).toMatchSnapshot();
});

test('should not display for trial license', () => {
    const rendered = getComponent(
        {
            license: createMockLicense('trial'),
            trialStatus: { canStartTrial: true }
        },
        StartTrial
    );
    expect(rendered.html()).toBeNull();
});

test('should not display for active platinum license', () => {
    const rendered = getComponent(
        {
            license: createMockLicense('platinum'),
            trialStatus: { canStartTrial: true }
        },
        StartTrial
    );
    expect(rendered.html()).toBeNull();
});

test('should display for expired platinum license', () => {
    const rendered = getComponent(
        {
            license: createMockLicense('platinum', 0),
            trialStatus: { canStartTrial: true }
        },
        StartTrial
    );
    expect(rendered.html()).toMatchSnapshot();
});
describe('StartTrial component when trial is not available', () => { test('should not display for basic license', () => { const rendered = getComponent(  
  
  license: createMockLicense('basic'),  
  trialStatus: { canStartTrial: false }  
},  
StartTrial  
);  
expect(rendered.html()).toBeNull(); });  
test('should not display for gold license', () => { const rendered = getComponent(  
  
  license: createMockLicense('gold'),  
  trialStatus: { canStartTrial: false }  
},  
StartTrial  
);  
expect(rendered.html()).toBeNull(); });  
test('should not display for platinum license', () => { const rendered = getComponent(  
  
  license: createMockLicense('platinum'),  
  trialStatus: { canStartTrial: false }  
},  
StartTrial  
);  
expect(rendered.html()).toBeNull(); });  
test('should not display for trial license', () => { const rendered = getComponent(  
  
  license: createMockLicense('gold'),  
  trialStatus: { canStartTrial: false }  
},  
StartTrial  
);  
expect(rendered.html()).toBeNull(); });  
}); */

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import { resolve } from 'path';
import { PLUGIN } from './common/constants';
import { registerLicenseRoute, registerStartTrialRoutes, registerStartBasicRoute } from
  "./server/routes/api/license";

export function licenseManagement(kibana) {
  return new kibana.Plugin({
    id: PLUGIN.ID,
    publicDir: resolve(__dirname, 'public'),
    require: ['kibana', 'elasticsearch'],
    uiExports: {
      managementSections: ['plugins/license_management'],
    },
    init: (server) => {
      registerLicenseRoute(server);
      registerStartTrialRoutes(server);
      registerStartBasicRoute(server);
    }
  });
}

import React from 'react';

export default (props) => <div>{props.children}</div>;

export function checkLicense(xpackLicenseInfo) {
  // If, for some reason, we cannot get the license information
  // from Elasticsearch, assume worst case and disable the Machine Learning UI
  if (!xpackLicenseInfo || !xpackLicenseInfo.isAvailable()) {
    return {
      
```
isAvailable: false,
showLinks: true,
enableLinks: false,
message: 'You cannot use Machine Learning because license information is not available at this time.';
};
}

const featureEnabled = xpackLicenseInfo.feature('ml').isEnabled();
if (!featureEnabled) {
  return {
    isAvailable: false,
    showLinks: false,
    enableLinks: false,
    message: 'Machine Learning is unavailable'
  };
}

const VALID_LICENSE_MODES = [
  'trial',
  'platinum'
];

const isLicenseModeValid = xpackLicenseInfo.license.isOneOf(VALID_LICENSE_MODES);
const isLicenseActive = xpackLicenseInfo.license.isActive();
const licenseType = xpackLicenseInfo.license.getType();

// License is not valid
if (!isLicenseModeValid) {
  return {
    isAvailable: false,
    showLinks: false,
    enableLinks: false,
    message: `Your ${licenseType} license does not support Machine Learning. Please upgrade your license.`
  };
}

// License is valid but not active
if (!isLicenseActive) {
  return {
    isAvailable: true,
    showLinks: true,
    enableLinks: true,
    hasExpired: true,
    message: `Your ${licenseType} Machine Learning license has expired.`
  };
}

// License is valid and active
return {
    isAvailable: true,
    showLinks: true,
    enableLinks: true,
    hasExpired: false,
};
}
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 */

export { checkLicense } from './check_license';
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 */

import expect from 'expect.js';
import sinon from 'sinon';
import { set } from 'lodash';
import { checkLicense } from '../check_license';

describe('check_license', () => {

    let mockLicenseInfo;
    beforeEach(() => mockLicenseInfo = {});

    describe('license information is undefined', () => {
        beforeEach(() => mockLicenseInfo = undefined);

        it('should set isAvailable to false', () => {
            expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
        });

        it('should set showLinks to true', () => {
            expect(checkLicense(mockLicenseInfo).showLinks).to.be(true);
        });

        it('should set enableLinks to false', () => {
            expect(checkLicense(mockLicenseInfo).enableLinks).to.be(false);
        });
    });

    it('should set isAvailable to true', () => {
        expect(checkLicense(mockLicenseInfo).isAvailable).to.be(true);
    });

    it('should set showLinks to false', () => {
        expect(checkLicense(mockLicenseInfo).showLinks).to.be(false);
    });

    it('should set enableLinks to true', () => {
        expect(checkLicense(mockLicenseInfo).enableLinks).to.be(true);
    });

});
describe('license information is not available', () => {
  beforeEach(() => mockLicenseInfo.isAvailable = () => false);

  it('should set isAvailable to false', () => {
    expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
  });

  it('should set showLinks to true', () => {
    expect(checkLicense(mockLicenseInfo).showLinks).to.be(true);
  });

  it('should set enableLinks to false', () => {
    expect(checkLicense(mockLicenseInfo).enableLinks).to.be(false);
  });

  it('should set a message', () => {
    expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
  });
});

describe('license information is available', () => {
  beforeEach(() => {
    mockLicenseInfo.isAvailable = () => true;
    set(mockLicenseInfo, 'license.getType', () => 'basic');
  });

  describe('& ML is disabled in Elasticsearch', () => {
    beforeEach(() => {
      set(mockLicenseInfo, 'feature', sinon.stub().withArgs('ml').returns({ isEnabled: () => false }));
    });

    it('should set showLinks to false', () => {
      expect(checkLicense(mockLicenseInfo).showLinks).to.be(false);
    });

    it('should set isAvailable to false', () => {
      expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
    });

    it('should set enableLinks to false', () => {
      expect(checkLicense(mockLicenseInfo).enableLinks).to.be(false);
    });
  });

  describe('license information is not available', () => {
    beforeEach(() => {
      expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
    });
  });

  it('should set isAvailable to false', () => {
    expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
  });

  it('should set showLinks to true', () => {
    expect(checkLicense(mockLicenseInfo).showLinks).to.be(true);
  });

  it('should set enableLinks to false', () => {
    expect(checkLicense(mockLicenseInfo).enableLinks).to.be(false);
  });
});
it('should set a message', () => {
  expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
});

describe('& ML is enabled in Elasticsearch', () => {
  beforeEach(() => {
    set(mockLicenseInfo, 'feature', sinon.stub().withArgs('ml').returns({ isEnabled: () => true }));
  });

describe('& license is trial, standard, gold, platinum', () => {
  beforeEach(() => set(mockLicenseInfo, 'license.isOneOf', () => true));

describe('& license is active', () => {
  beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => true));

  it('should set isAvailable to true', () => {
    expect(checkLicense(mockLicenseInfo).isAvailable).to.be(true);
  });

  it ('should set showLinks to true', () => {
    expect(checkLicense(mockLicenseInfo).showLinks).to.be(true);
  });

  it ('should set enableLinks to true', () => {
    expect(checkLicense(mockLicenseInfo).enableLinks).to.be(true);
  });

  it('should not set a message', () => {
    expect(checkLicense(mockLicenseInfo).message).to.be(undefined);
  });
});

describe('& license is expired', () => {
  beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => false));

  it('should set isAvailable to true', () => {
    expect(checkLicense(mockLicenseInfo).isAvailable).to.be(true);
  });

  it ('should set showLinks to true', () => {
    expect(checkLicense(mockLicenseInfo).showLinks).to.be(true);
  });

  it ('should set enableLinks to true', () => {
    expect(checkLicense(mockLicenseInfo).enableLinks).to.be(true);
  });
});
it('should set a message', () => {
    expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
});
});

describe('& license is basic', () => {
    beforeEach(() => set(mockLicenseInfo, 'license.isOneOf', () => false));

describe('& license is active', () => {
    beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => true));

    it('should set isAvailable to false', () => {
        expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
    });

    it('should set showLinks to false', () => {
        expect(checkLicense(mockLicenseInfo).showLinks).to.be(false);
    });

    it('should set a message', () => {
        expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
    });
});

describe('& license is expired', () => {
    beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => false));

    it('should set isAvailable to false', () => {
        expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
    });

    it('should set showLinks to false', () => {
        expect(checkLicense(mockLicenseInfo).showLinks).to.be(false);
    });

    it('should set a message', () => {
        expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
    });
});
import React from 'react';
import { XPackInfoProvider } from 'plugins/xpack_main/services/xpack_info';
import { Notifier, banners } from 'ui/notify';
import chrome from 'ui/chrome';
import { EuiCallOut } from '@elastic/eui';

let licenseHasExpired = true;
let expiredLicenseBannerId;

export function checkLicense(Private, kbnBaseUrl) {
  const xpackInfo = Private(XPackInfoProvider);
  const features = xpackInfo.get('features.ml');

  const licenseAllowsToShowThisPage = features.isAvailable;
  if (!licenseAllowsToShowThisPage) {
    const message = features.message;
    let queryString = `?${Notifier.QS_PARAM_LOCATION}=Machine Learning&`;
    queryString += `${Notifier.QS_PARAM_LEVEL}=error&${Notifier.QS_PARAM_MESSAGE}=${message}`;
    const url = `${chrome.addBasePath(kbnBaseUrl)}#${queryString}`;
    window.location.href = url;
    return Promise.halt();
  }

  licenseHasExpired = features.hasExpired || false;

  // If the license has expired ML app will still work for 7 days and then
  // the job management endpoints (e.g. create job, start datafeed) will be restricted.
  // Therefore we need to keep the app enabled but show an info banner to the user.
  if(licenseHasExpired) {
    const message = features.message;
    if (expiredLicenseBannerId === undefined) {
      // Only show the banner once with no way to dismiss it
      expiredLicenseBannerId = banners.add({
        component: (<EuiCallOut
          iconType="iInCircle"
          color="warning"
          title={message}
        />
      });
    }
  }
}
return Promise.resolve(features);
}

// a wrapper for checkLicense which doesn't resolve if the license has expired.
// this is used by all create jobs pages to redirect back to the jobs list
// if the user's license has expired.
export function checkLicenseExpired(Private, Promise, kbnBaseUrl, kbnUrl) {
  return checkLicense(Private, Promise, kbnBaseUrl)
    .then((features) => {
      if (features.hasExpired) {
        kbnUrl.redirect('/jobs');
        return Promise.halt();
      } else {
        return Promise.resolve(features);
      }
    })
    .catch(() => {
      return Promise.halt();
    });
}

export function getLicenseHasExpired() {
  return licenseHasExpired;
}

export function xpackFeatureProvider(Private) {
  const xpackInfo = Private(XPackInfoProvider);
  function isAvailable(feature) {
    return xpackInfo.get(`features.${feature}.isAvailable`, false);
  }

  return {
    isAvailable
  };
}

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 */

export function checkLicense(xpackLicenseInfo) {
  if (!xpackLicenseInfo || !xpackLicenseInfo.isAvailable()) {
    return {
      showAppLink: true,
      enableAppLink: false,
    }
  }
  return Promise.resolve(features);
}
const isLicenseActive = xpackLicenseInfo.license.isActive();
let message;
if (!isLicenseActive) {
    message = 'Search Profiler is unavailable - license has expired.';
}

if (xpackLicenseInfo.license.isOneOf(['trial', 'basic', 'standard', 'gold', 'platinum'])) {
    return {
        showAppLink: true,
        enableAppLink: isLicenseActive,
        message
    };  
}

message = 'Search Profiler is unavailable for the current ${xpackLicenseInfo.license.getType()} license. Please upgrade your license.';
return {
    showAppLink: false,
    enableAppLink: false,
    message
};  
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 */

import expect from 'expect.js';
import { set } from 'lodash';
import { checkLicense } from '../check_license';

describe('check_license', function() {

    let mockLicenseInfo;
    beforeEach(() => mockLicenseInfo = {});

    describe('license information is not available', () => {
        beforeEach(() => mockLicenseInfo.isAvailable = () => false);

        it('should set showLinks to true', () => {
            expect(checkLicense(mockLicenseInfo).showAppLink).to.be(true);  
        });
    });
it('should set enableLinks to false', () => {
  expect(checkLicense(mockLicenseInfo).enableAppLink).to.be(false);
});

describe('license information is available', () => {
  beforeEach(() => {
    mockLicenseInfo.isAvailable = () => true;
    set(mockLicenseInfo, 'license.getType', () => 'basic');
  });

  describe('& license is trial, standard, gold, platinum', () => {
    beforeEach(() => set(mockLicenseInfo, 'license.isOneOf', () => true));

    describe('& license is active', () => {
      beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => true));

      it('should set showLinks to true', () => {
        expect(checkLicense(mockLicenseInfo).showAppLink).to.be(true);
      });

      it('should set enableLinks to true', () => {
        expect(checkLicense(mockLicenseInfo).enableAppLink).to.be(true);
      });
    });

    describe('& license is expired', () => {
      beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => false));

      it('should set showLinks to true', () => {
        expect(checkLicense(mockLicenseInfo).showAppLink).to.be(true);
      });

      it('should set enableLinks to false', () => {
        expect(checkLicense(mockLicenseInfo).enableAppLink).to.be(false);
      });
    });

  });

  describe('& license is basic', () => {
    beforeEach(() => set(mockLicenseInfo, 'license.isOneOf', () => false));

    describe('& license is active', () => {
      beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => true));

      it('should set showLinks to false', () => {
        expect(checkLicense(mockLicenseInfo).showAppLink).to.be(false);
      });
    });
  });

});
describe('license is expired', () => {
  beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => false));

  it('should set showLinks to false', () => {
    expect(checkLicense(mockLicenseInfo).showAppLink).to.be(false);
  });
});

"xpack.license.delete": {
  "methods": [
    "DELETE"
  ],
  "patterns": [
    "_xpack/license"
  ],
  "documentation": "https://www.elastic.co/guide/en/x-pack/current/license-management.html"
}

"xpack.license.get": {
  "url_params": {
    "local": "__flag__"
  },
  "methods": [
    "GET"
  ],
  "patterns": [
    "_xpack/license"
  ],
  "documentation": "https://www.elastic.co/guide/en/x-pack/current/license-management.html"
}

"xpack.license.post_start_basic": {
  "url_params": {
    "acknowledge": "__flag__"
  },
  "methods": [
    "POST"
  ],
  "patterns": [
    "_xpack/license/start_basic"
  ]
}
"documentation": "https://www.elastic.co/guide/en/x-pack/current/license-management.html"
"
"xpack.license.get_trial_status": {
    "methods": [
        "GET"
    ],
    "patterns": [
        "_xpack/license/trial_status"
    ],
    "documentation": "https://www.elastic.co/guide/en/x-pack/current/license-management.html"
}
"
"xpack.license.post": {
    "url_params": {
        "acknowledge": "__flag__"
    },
    "methods": [
        "PUT",
        "POST"
    ],
    "patterns": [
        "_xpack/license"
    ],
    "documentation": "https://www.elastic.co/guide/en/x-pack/current/license-management.html"
}
"
"xpack.license.post_start_trial": {
    "url_params": {
        "type": "trial",
        "acknowledge": "__flag__"
    },
    "methods": [
        "POST"
    ],
    "patterns": [
        "_xpack/license/start_trial"
    ],
    "documentation": "https://www.elastic.co/guide/en/x-pack/current/license-management.html"
}
"
"xpack.license.get_basic_status": {
    "methods": [
        "GET"
    ]}
export function checkLicense(xpackLicenseInfo) {

if (!xpackLicenseInfo || !xpackLicenseInfo.isAvailable()) {
    return {
        showAppLink: true,
        enableAppLink: false,
        message: 'Graph is unavailable - license information is not available at this time.'
    };
}

const graphFeature = xpackLicenseInfo.feature('graph');
if (!graphFeature.isEnabled()) {
    return {
        showAppLink: false,
        enableAppLink: false,
        message: 'Graph is unavailable'
    };
}

const isLicenseActive = xpackLicenseInfo.license.isActive();
let message;
if (!isLicenseActive) {
    message = 'Graph is unavailable - license has expired.';
}

if (xpackLicenseInfo.license.isOneOf([ 'trial', 'platinum' ])) {
    return {
        showAppLink: true,
message = 'Graph is unavailable for the current ${xpackLicenseInfo.license.getType()} license. Please upgrade your license.';
return {
    showAppLink: false,
    enableAppLink: false,
    message
};
}
*/
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*/

import expect from 'expect.js';
import { set } from 'lodash';
import sinon from 'sinon';
import { checkLicense } from '../check_license';

describe('check_license: ', function () {

    let mockLicenseInfo;
    let licenseCheckResult;

    beforeEach(() => {
        mockLicenseInfo = {
            isAvailable: () => true
        };
    });

    describe('mockLicenseInfo is not set', () => {
        beforeEach(() => {
            mockLicenseInfo = null;
            licenseCheckResult = checkLicense(mockLicenseInfo);
        });

        it ('should set showAppLink to true', () => {
            expect(licenseCheckResult.showAppLink).to.be(true);
        });

        it ('should set enableAppLink to false', () => {
            expect(licenseCheckResult.enableAppLink).to.be(false);
        });
    });

    describe('mockLicenseInfo is set', () => {
        beforeEach(() => {
            mockLicenseInfo = {
                isAvailable: () => true
            };
        });

        it ('should set showAppLink to true', () => {
            expect(licenseCheckResult.showAppLink).to.be(true);
        });

        it ('should set enableAppLink to false', () => {
            expect(licenseCheckResult.enableAppLink).to.be(false);
        });
    });

});
describe('mockLicenseInfo is set but not available', () => {
  beforeEach(() => {
    mockLicenseInfo = { isAvailable: () => false }
    licenseCheckResult = checkLicense(mockLicenseInfo);
  });

  it ('should set showAppLink to true', () => {
    expect(licenseCheckResult.showAppLink).to.be(true);
  });

  it ('should set enableAppLink to false', () => {
    expect(licenseCheckResult.enableAppLink).to.be(false);
  });
});

describe('graph is disabled in Elasticsearch', () => {
  beforeEach(() => {
    set(mockLicenseInfo, 'feature', sinon.stub().withArgs('graph').returns({ isEnabled: () => false }));
    licenseCheckResult = checkLicense(mockLicenseInfo);
  });

  it ('should set showAppLink to false', () => {
    expect(licenseCheckResult.showAppLink).to.be(false);
  });
});

describe('graph is enabled in Elasticsearch', () => {
  beforeEach(() => {
    set(mockLicenseInfo, 'feature', sinon.stub().withArgs('graph').returns({ isEnabled: () => true }));
  });

  describe('& license is trial or platinum', () => {
    beforeEach(() => {
      set(mockLicenseInfo, 'license.isOneOf', sinon.stub().withArgs([ 'trial', 'platinum' ]).returns(true));
      set(mockLicenseInfo, 'license.getType', () => 'trial');
    });

    describe('& license is active', () => {
      beforeEach(() => {
        set(mockLicenseInfo, 'license.isActive', () => true);
        licenseCheckResult = checkLicense(mockLicenseInfo);
      });

      it ('should set showAppLink to true', () => {
        expect(licenseCheckResult.showAppLink).to.be(true);
      });
    });
  });
});
describe('& license is expired', () => {
  beforeEach(() => {
    set(mockLicenseInfo, 'license.isActive', () => false);
    licenseCheckResult = checkLicense(mockLicenseInfo);
  });

  it('should set showAppLink to true', () => {
    expect(licenseCheckResult.showAppLink).to.be(true);
  });

  it('should set enableAppLink to false', () => {
    expect(licenseCheckResult.enableAppLink).to.be(false);
  });
});

describe('& license is neither trial nor platinum', () => {
  beforeEach(() => {
    set(mockLicenseInfo, 'license.isOneOf', () => false);
    set(mockLicenseInfo, 'license.getType', () => 'basic');
    set(mockLicenseInfo, 'license.isActive', () => true);
    licenseCheckResult = checkLicense(mockLicenseInfo);
  });

  it('should set showAppLink to false', () => {
    expect(licenseCheckResult.showAppLink).to.be(false);
  });
});

const messages = {
  getUnavailable: () => {
    return 'You cannot use Reporting because license information is not available at this time.';
  },
  getExpired: (license) => {
    return 'You cannot use Reporting because license information is not available at this time.';
  }
}
return `You cannot use Reporting because your `${license.getType()} license has expired.';
``
``

const makeManagementFeature = (exportTypes) => {
  return {
    id: 'management',
    checkLicense: (license) => {
      if (!license) {
        return {
          showLinks: true,
          enableLinks: false,
          message: messages.getUnavailable(),
        };
      }
      if (!license.isActive()) {
        return {
          showLinks: true,
          enableLinks: false,
          message: messages.getExpired(license),
        };
      }
      const validJobTypes = exportTypes
        .filter(exportType => license.isOneOf(exportType.validLicenses))
        .map(exportType => exportType.jobType);
      return {
        showLinks: validJobTypes.length > 0,
        enableLinks: validJobTypes.length > 0,
        jobTypes: validJobTypes
      };
    }
  };
}

const makeExportTypeFeature = (exportType) => {
  return {
    id: exportType.id,
    checkLicense: (license) => {
      if (!license) {
        return {
          showLinks: true,
          enableLinks: false,
          message: messages.getUnavailable(),
        };
      }
    }
  };
}
if (!license.isOneOf(exportType.validLicenses)) {
    return {
        showLinks: false,
        enableLinks: false,
        message: `Your ${license.getType()} license does not support ${exportType.name} Reporting. Please upgrade your license.`
    };
}

if (!license.isActive()) {
    return {
        showLinks: true,
        enableLinks: false,
        message: messages.getExpired(license),
    };
}

return {
    showLinks: true,
    enableLinks: true,
};

export function checkLicenseFactory(exportTypesRegistry) {
    return function checkLicense(xpackLicenseInfo) {
        const license = xpackLicenseInfo === null || !xpackLicenseInfo.isAvailable() ? null : xpackLicenseInfo.license;

        const exportTypes = Array.from(exportTypesRegistry.getAll());
        const reportingFeatures = [...exportTypes.map(makeExportTypeFeature), makeManagementFeature(exportTypes)];

        return reportingFeatures.reduce((result, feature) => {
            result[feature.id] = feature.checkLicense(license);
            return result;
        }, {});
    };
}

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import expect from 'expect.js';
import { set } from 'lodash';
import { checkLicenseFactory } from '../check_license';

describe('check_license', function () {

    let mockLicenseInfo;
    let checkLicense;

    beforeEach(() => {
        mockLicenseInfo = {};
        checkLicense = checkLicenseFactory({
            getAll: () => [
                { id: 'test',
                  name: 'Test Export Type',
                  jobType: 'testJobType'
                }
            ];
        });
    });

    describe('license information is not available', () => {
        beforeEach(() => mockLicenseInfo.isAvailable = () => false);

        it('should set management.showLinks to true', () => {
            expect(checkLicense(mockLicenseInfo).management.showLinks).to.be(true);
        });

        it('should set test.showLinks to true', () => {
            expect(checkLicense(mockLicenseInfo).test.showLinks).to.be(true);
        });

        it('should set management.enableLinks to false', () => {
            expect(checkLicense(mockLicenseInfo).management.enableLinks).to.be(false);
        });

        it('should set test.enableLinks to false', () => {
            expect(checkLicense(mockLicenseInfo).test.enableLinks).to.be(false);
        });

        it ('should set management.jobTypes to undefined', () => {
            expect(checkLicense(mockLicenseInfo).management.jobTypes).to.be(undefined);
        });
    });

    describe('license information is available', () => {
        beforeEach(() => {
            mockLicenseInfo.isAvailable = () => true;
            set(mockLicenseInfo, 'license.getType', () => 'basic');
        });

        describe('license information is available', () => {
            beforeEach(() => {
                mockLicenseInfo.isAvailable = () => true;
                set(mockLicenseInfo, 'license.getType', () => 'basic');
            });

            it('should set management.showLinks to true', () => {
                expect(checkLicense(mockLicenseInfo).management.showLinks).to.be(true);
            });

            it('should set test.showLinks to true', () => {
                expect(checkLicense(mockLicenseInfo).test.showLinks).to.be(true);
            });

            it('should set management.enableLinks to false', () => {
                expect(checkLicense(mockLicenseInfo).management.enableLinks).to.be(false);
            });

            it('should set test.enableLinks to false', () => {
                expect(checkLicense(mockLicenseInfo).test.enableLinks).to.be(false);
            });

            it ('should set management.jobTypes to undefined', () => {
                expect(checkLicense(mockLicenseInfo).management.jobTypes).to.be(undefined);
            });
        });
    });
});
describe('& license is trial, standard, gold, platinum', () => {
  beforeEach(() => set(mockLicenseInfo, 'license.isOneOf', () => true));

  describe('& license is active', () => {
    beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => true));

    it ('should set management.showLinks to true', () => {
      expect(checkLicense(mockLicenseInfo).management.showLinks).to.be(true);
    });

    it ('should set test.showLinks to true', () => {
      expect(checkLicense(mockLicenseInfo).test.showLinks).to.be(true);
    });

    it ('should set management.enableLinks to true', () => {
      expect(checkLicense(mockLicenseInfo).management.enableLinks).to.be(true);
    });

    it ('should set test.enableLinks to true', () => {
      expect(checkLicense(mockLicenseInfo).test.enableLinks).to.be(true);
    });

    it ('should set management.jobTypes to contain testJobType', () => {
      expect(checkLicense(mockLicenseInfo).management.jobTypes).to.contain('testJobType');
    });
  });

  describe('& license is expired', () => {
    beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => false));

    it ('should set management.showLinks to true', () => {
      expect(checkLicense(mockLicenseInfo).management.showLinks).to.be(true);
    });

    it ('should set test.showLinks to true', () => {
      expect(checkLicense(mockLicenseInfo).test.showLinks).to.be(true);
    });

    it ('should set management.enableLinks to false', () => {
      expect(checkLicense(mockLicenseInfo).management.enableLinks).to.be(false);
    });

    it ('should set test.enableLinks to false', () => {
      expect(checkLicense(mockLicenseInfo).test.enableLinks).to.be(false);
    });

    it ('should set management.jobTypes to undefined', () => {
      expect(checkLicense(mockLicenseInfo).management.jobTypes).to.be(undefined);
    });
  });

});
describe('& license is basic', () => {
  beforeEach(() => set(mockLicenseInfo, 'license.isOneOf', () => false));

  describe('& license is active', () => {
    beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => true));

    it('should set management.showLinks to true', () => {
      expect(checkLicense(mockLicenseInfo).management.showLinks).to.be(false);
    });

    it('should set test.showLinks to false', () => {
      expect(checkLicense(mockLicenseInfo).test.showLinks).to.be(false);
    });

    it('should set management.jobTypes to an empty array', () => {
      expect(checkLicense(mockLicenseInfo).management.jobTypes).to.be.an(Array);
      expect(checkLicense(mockLicenseInfo).management.jobTypes).to.have.length(0);
    });
  });

  describe('& license is expired', () => {
    beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => false));

    it('should set management.showLinks to true', () => {
      expect(checkLicense(mockLicenseInfo).management.showLinks).to.be(true);
    });

    it('should set test.showLinks to false', () => {
      expect(checkLicense(mockLicenseInfo).test.showLinks).to.be(false);
    });

    it('should set management.jobTypes to undefined', () => {
      expect(checkLicense(mockLicenseInfo).management.jobTypes).to.be(undefined);
    });
  });

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import React from 'react';
import { createInitialDataSelector } from './helpers';
import { Request } from 'react-redux-request';
import { loadLicense } from '../../services/rest/apm';

const ID = 'license';
const INITIAL_DATA = {
  features: {
    watcher: { isAvailable: false },
    ml: { isAvailable: false }
  },
  license: { isActive: false }
};

const withInitialData = createInitialDataSelector(INITIAL_DATA);

export function getLicense(state) {
  return withInitialData(state.reactReduxRequest[ID]);
}

export function LicenceRequest({ render }) {
  return (<Request id={ID} fn={loadLicense} selector={getLicense} render={render} />);
}

import { EventEmitter } from 'events';
import { watchStatusAndLicenseToInitialize, RETRY_SCALE_DURATION, RETRY_DURATION_MAX } from './watch_status_and_license_to_initialize';

const createMockXpackMainPluginAndFeature = (featureId) => {
  const licenseChangeCallbacks = [];
  const mockFeature = {
    getLicenseCheckResults: jest.fn(),
    mock: {
      triggerLicenseChange: () => {
        for (const callback of licenseChangeCallbacks) {
          callback();
        }
      }
    }
  };

  const licenseChangeCallbacks = [];
callback();
}
,
setLicenseCheckResults: (value) => {
  mockFeature.getLicenseCheckResults.mockReturnValue(value);
}

const mockXpackMainPlugin = {
  info: {
    onLicenseInfoChange: (callback) => {
      licenseChangeCallbacks.push(callback);
    },
    feature: (id) => {
      if (id === featureId) {
        return mockFeature;
      }
      throw new Error('Unexpected feature');
    }
  },
  status: new EventEmitter(),
  mock: {
    setStatus: (state, message) => {
      mockXpackMainPlugin.status.state = state;
      mockXpackMainPlugin.status.message = message;
      mockXpackMainPlugin.status.emit('change', null, null, state, message);
    }
  }
};
return { mockXpackMainPlugin, mockFeature }

const createMockDownstreamPlugin = (id) => {
  const defaultImplementation = () => { throw new Error('Not implemented'); }; 
  return {
    id,
    status: {
      disabled: jest.fn().mockImplementation(defaultImplementation),
      yellow: jest.fn().mockImplementation(defaultImplementation),
      green: jest.fn().mockImplementation(defaultImplementation),
      red: jest.fn().mockImplementation(defaultImplementation),
    },
  }
};

const advanceRetry = async (initializeCount) => {

await Promise.resolve();
let duration = initializeCount * RETRY_SCALE_DURATION;
if (duration > RETRY_DURATION_MAX) {
    duration = RETRY_DURATION_MAX;
}
jest.advanceTimersByTime(duration);

['red', 'yellow', 'disabled'].forEach(state => {
    test(`mirrors ${state} immediately`, () => {
        const pluginId = 'foo-plugin';
        const message = `${state} is now the state`;
        const { mockXpackMainPlugin } = createMockXpackMainPluginAndFeature(pluginId);
        mockXpackMainPlugin.mock.setStatus(state, message);
        const downstreamPlugin = createMockDownstreamPlugin(pluginId);
        const initializeMock = jest.fn();
        downstreamPlugin.status[state].mockImplementation(() => { });
        watchStatusAndLicenseToInitialize(mockXpackMainPlugin, downstreamPlugin, initializeMock);

        expect(initializeMock).not.toHaveBeenCalled();
        expect(downstreamPlugin.status[state]).toHaveBeenCalledTimes(1);
        expect(downstreamPlugin.status[state]).toHaveBeenCalledWith(message);
    });
});

expect(downstreamPlugin.status.green).toHaveBeenCalledTimes(0);

});

});

test(`calls initialize and doesn’t immediately set downstream status when the initial status is green`, () => {
    const pluginId = 'foo-plugin';
    const { mockXpackMainPlugin, mockFeature } = createMockXpackMainPluginAndFeature(pluginId);
    mockXpackMainPlugin.mock.setStatus('green', 'green is now the state');
    const licenseCheckResults = Symbol();
    mockFeature.mock.setLicenseCheckResults(licenseCheckResults);
    const downstreamPlugin = createMockDownstreamPlugin(pluginId);
    const initializeMock = jest.fn().mockImplementation(() => new Promise(() => { }));
    watchStatusAndLicenseToInitialize(mockXpackMainPlugin, downstreamPlugin, initializeMock);

    expect(initializeMock).toHaveBeenCalledTimes(1);
    expect(initializeMock).toHaveBeenCalledWith(licenseCheckResults);
    expect(downstreamPlugin.status.green).toHaveBeenCalledWith('green', { 'green is now the state' });
});

});

test(`sets downstream plugin's status to green when initialize resolves`, (done) => {
    const pluginId = 'foo-plugin';
    const { mockXpackMainPlugin, mockFeature } = createMockXpackMainPluginAndFeature(pluginId);
    mockXpackMainPlugin.mock.setStatus('green', 'green is now the state');
    const licenseCheckResults = Symbol();
    mockFeature.mock.setLicenseCheckResults(licenseCheckResults);
});
const downstreamPlugin = createMockDownstreamPlugin(pluginId);
const initializeMock = jest.fn().mockImplementation(() => Promise.resolve());

watchStatusAndLicenseToInitialize(mockXpackMainPlugin, downstreamPlugin, initializeMock);

expect(initializeMock).toHaveBeenCalledTimes(1);
expect(initializeMock).toHaveBeenCalledWith(licenseCheckResults);
downstreamPlugin.status.green.mockImplementation(actualMessage => {
  expect(actualMessage).toBe('Ready');
  done();
});
);

test(`sets downstream plugin’s status to red when initialize initially rejects, and continually polls initialize`, (done) => {
  jest.useFakeTimers();

  const pluginId = 'foo-plugin';
  const errorMessage = 'the error message';
  const { mockXpackMainPlugin, mockFeature } = createMockXpackMainPluginAndFeature(pluginId);
  mockXpackMainPlugin.mock.setStatus('green');
  const licenseCheckResults = Symbol();
  mockFeature.mock.setLicenseCheckResults(licenseCheckResults);
  const downstreamPlugin = createMockDownstreamPlugin(pluginId);

  let isRed = false;
  let initializeCount = 0;
  const initializeMock = jest.fn().mockImplementation(() => {
    ++initializeCount;

    // on the second retry, ensure we already set the status to red
    if (initializeCount === 2) {
      expect(isRed).toBe(true);
    }

    // this should theoretically continue indefinitely, but we only have so long to run the tests
    if (initializeCount === 100) {
      done();
    }

    // everytime this is called, we have to wait for a new promise to be resolved
    // allowing the Promise the we return below to run, and then advance the timers
    setImmediate(() => {
      advanceRetry(initializeCount);
    });
    return Promise.reject(new Error(errorMessage));
  });
});
watchStatusAndLicenseToInitialize(mockXpackMainPlugin, downstreamPlugin, initializeMock);

expect(initializeMock).toHaveBeenCalledTimes(1);
expect(initializeMock).toHaveBeenCalledWith(licenseCheckResults);
downstreamPlugin.status.red.mockImplementation(message => {
  isRed = true;
  expect(message).toBe(errorMessage);
});

test(`sets downstream plugin's status to green when initialize resolves after rejecting 10 times`, (done) => {
  jest.useFakeTimers();

  const pluginId = 'foo-plugin';
  const errorMessage = 'the error message';
  const { mockXpackMainPlugin, mockFeature } = createMockXpackMainPluginAndFeature(pluginId);
  mockXpackMainPlugin.mock.setStatus('green');
  const licenseCheckResults = Symbol();
  mockFeature.mock.setLicenseCheckResults(licenseCheckResults);
  const downstreamPlugin = createMockDownstreamPlugin(pluginId);

  let initializeCount = 0;
  const initializeMock = jest.fn().mockImplementation(() => {
    ++initializeCount;
  
    // everytime this is called, we have to wait for a new promise to be resolved
    // allowing the Promise the we return below to run, and then advance the timers
    setImmediate(() => {
      advanceRetry(initializeCount);
    });

    if (initializeCount >= 10) {
      return Promise.resolve();
    }

    return Promise.reject(new Error(errorMessage));
  });

  watchStatusAndLicenseToInitialize(mockXpackMainPlugin, downstreamPlugin, initializeMock);

  expect(initializeMock).toHaveBeenCalledTimes(1);
  expect(initializeMock).toHaveBeenCalledWith(licenseCheckResults);
downstreamPlugin.status.red.mockImplementation(message => {
  expect(initializeCount).toBeLessThan(10);
  expect(message).toBe(errorMessage);
});

downstreamPlugin.status.green.mockImplementation(message => {
  expect(initializeCount).toBe(10);

});
test('calls initialize twice when it gets a new license and the status is green', (done) => {
  const pluginId = 'foo-plugin';
  const { mockXpackMainPlugin, mockFeature } = createMockXpackMainPluginAndFeature(pluginId);
  mockXpackMainPlugin.mock.setStatus('green');
  const firstLicenseCheckResults = Symbol();
  const secondLicenseCheckResults = Symbol();
  mockFeature.mock.setLicenseCheckResults(firstLicenseCheckResults);
  const downstreamPlugin = createMockDownstreamPlugin(pluginId);
  const initializeMock = jest.fn().mockImplementation(() => Promise.resolve());

  let count = 0;
  downstreamPlugin.status.green.mockImplementation(message => {
    expect(message).toBe('Ready');
    ++count;
    if (count === 1) {
      mockFeature.mock.setLicenseCheckResults(secondLicenseCheckResults);
      mockFeature.mock.triggerLicenseChange();
    }
    if (count === 2) {
      expect(initializeMock).toHaveBeenCalledWith(firstLicenseCheckResults);
      expect(initializeMock).toHaveBeenCalledWith(secondLicenseCheckResults);
      expect(initializeMock).toHaveBeenCalledTimes(2);
      done();
    }
  });

  watchStatusAndLicenseToInitialize(mockXpackMainPlugin, downstreamPlugin, initializeMock);
});

test('doesn’t call initialize twice when it gets a new license when the status isn’t green', (done) => {
  const pluginId = 'foo-plugin';
  const redMessage = 'the red message';
  const { mockXpackMainPlugin, mockFeature } = createMockXpackMainPluginAndFeature(pluginId);
  mockXpackMainPlugin.mock.setStatus('green');
  const firstLicenseCheckResults = Symbol();
  const secondLicenseCheckResults = Symbol();
  mockFeature.mock.setLicenseCheckResults(firstLicenseCheckResults);
  const downstreamPlugin = createMockDownstreamPlugin(pluginId);
  const initializeMock = jest.fn().mockImplementation(() => Promise.resolve());

  downstreamPlugin.status.green.mockImplementation(message => {
    expect(message).toBe('Ready');
    mockXpackMainPlugin.mock.setStatus('red', redMessage);
  });

  // Additional test code...
});
mockFeature.mock.setLicenseCheckResults(secondLicenseCheckResults);
mockFeature.mock.triggerLicenseChange();
}

downstreamPlugin.status.red.mockImplementation(message => {
    expect(message).toBe(redMessage);
    expect(initializeMock).toHaveBeenCalledTimes(1);
    expect(initializeMock).toHaveBeenCalledWith(firstLicenseCheckResults);
    done();
});

watchStatusAndLicenseToInitialize(mockXpackMainPlugin, downstreamPlugin, initializeMock);
}

test(‘calls initialize twice when the status changes to green twice’, (done) => {
    const pluginId = ‘foo-plugin’;
    const { mockXpackMainPlugin, mockFeature } = createMockXpackMainPluginAndFeature(pluginId);
    mockXpackMainPlugin.mock.setStatus(‘green’);
    const licenseCheckResults = Symbol();
    mockFeature.mock.setLicenseCheckResults(licenseCheckResults);
    const downstreamPlugin = createMockDownstreamPlugin(pluginId);
    const initializeMock = jest.fn().mockImplementation(() => Promise.resolve());

    let count = 0;
    downstreamPlugin.status.green.mockImplementation(message => {
        expect(message).toBe(‘Ready’);
        ++count;
        if (count === 1) {
            mockXpackMainPlugin.mock.setStatus(‘green’);
        }
        if (count === 2) {
            expect(initializeMock).toHaveBeenCalledWith(licenseCheckResults);
            expect(initializeMock).toHaveBeenCalledTimes(2);
            done();
        }
    });

    watchStatusAndLicenseToInitialize(mockXpackMainPlugin, downstreamPlugin, initializeMock);
});

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*/

/**
 * @typedef {Object} LicenseCheckResult Result of the license check.
 * @property {boolean} showLogin Indicates whether we show login page or skip it.
*/
* @property {boolean} allowLogin Indicates whether we allow login or disable it on the login page.
* @property {boolean} showLinks Indicates whether we show security links throughout the kibana app.
* @property {boolean} allowRoleDocumentLevelSecurity Indicates whether we allow users to define document level security in roles.
* @property {boolean} allowRoleFieldLevelSecurity Indicates whether we allow users to define field level security in roles.
* @property {string} [loginMessage] Message to show at the login page.
* @property {string} [linksMessage] Message to show when security links are clicked throughout the kibana app.
*/

/**
 * Returns object that defines behavior of the security related areas (login page, user management etc.) based on the license information extracted from the xPackInfo.
 * @param {XPackInfo} xPackInfo XPackInfo instance to extract license information from.
 * @returns {LicenseCheckResult}
 */
export function checkLicense(xPackInfo) {
  // If, for some reason, we cannot get license information from Elasticsearch, assume worst-case and lock user at login screen.
  if (!xPackInfo.isAvailable()) {
    return {
      showLogin: true,
      allowLogin: false,
      showLinks: false,
      allowRoleDocumentLevelSecurity: false,
      allowRoleFieldLevelSecurity: false,
      allowRbac: false,
      layout: xPackInfo.isXpackUnavailable() ? 'error-xpack-unavailable' : 'error-es-unavailable'
    };
  }

  const isLicenseBasic = xPackInfo.license.isOneOf(['basic']);
  const isEnabledInES = xPackInfo.feature('security').isEnabled();
  if (!isEnabledInES || isLicenseBasic) {
    return {
      showLogin: false,
      allowLogin: false,
      showLinks: false,
      allowRoleDocumentLevelSecurity: false,
      allowRoleFieldLevelSecurity: false,
      allowRbac: false,
      linksMessage: isLicenseBasic
        ? 'Your Basic license does not support Security. Please upgrade your license.'
        : 'Access is denied because Security is disabled in Elasticsearch.'
    };
  }
}
const isLicensePlatinumOrTrial = xPackInfo.license.isOneOf(['platinum', 'trial']);
return {
  showLogin: true,
  allowLogin: true,
  showLinks: true,
  // Only platinum and trial licenses are compliant with field- and document-level security.
  allowRoleDocumentLevelSecurity: isLicensePlatinumOrTrial,
  allowRoleFieldLevelSecurity: isLicensePlatinumOrTrial,
  allowRbac: true,
};

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 */
import * as Rx from 'rxjs';
import { catchError, mergeMap, map, switchMap, tap } from 'rxjs/operators';

export const RETRY_SCALE_DURATION = 100;
export const RETRY_DURATION_MAX = 10000;

const calculateDuration = i => {
  const duration = i * RETRY_SCALE_DURATION;
  if (duration > RETRY_DURATION_MAX) {
    return RETRY_DURATION_MAX;
  }

  return duration;
};

// we can't use a retryWhen here, because we want to propagate the red status and then retry
const propagateRedStatusAndScaleRetry = () => {
  let i = 0;
  return (err, caught) =>
    Rx.concat(
      Rx.of(
        { state: 'red', message: err.message
        },
        Rx.timer(calculateDuration(++i)).pipe(mergeMap(() => caught))
      );
    );

  export function watchStatusAndLicenseToInitialize(xpackMainPlugin, downstreamPlugin, initialize) {
    const xpackInfo = xpackMainPlugin.info;
    const xpackInfoFeature = xpackInfo.feature(downstreamPlugin.id);
const upstreamStatus = xpackMainPlugin.status;
const currentStatus$ = Rx
  .of({
      state: upstreamStatus.state,
      message: upstreamStatus.message,
    });
const newStatus$ = Rx
  .fromEvent(upstreamStatus, 'change', null, (previousState, previousMsg, state, message) => {
    return {
      state,
      message,
    };
  });
const status$ = Rx.merge(currentStatus$, newStatus$);

const currentLicense$ = Rx.of(xpackInfoFeature.getLicenseCheckResults());
const newLicense$ = Rx
  .fromEventPattern(xpackInfo.onLicenseInfoChange.bind(xpackInfo))
  .pipe(map(() => xpackInfoFeature.getLicenseCheckResults()));
const license$ = Rx.merge(currentLicense$, newLicense$);

Rx.combineLatest(status$, license$)
  .pipe(
    map(([status, license]) => ({ status, license })),
    switchMap(([status, license]) => {
      if (status.state !== 'green') {
        return Rx.of({ state: status.state, message: status.message });
      }
      return Rx.defer(() => initialize(license))
        .pipe(
          map(() => ({
            state: 'green',
            message: 'Ready',
          })),
          catchError(propagateRedStatusAndScaleRetry())
        );
    }),
    tap(([state, message]) => {
      downstreamPlugin.status[state](message);
    })
  ).subscribe();
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 */
import expect from 'expect.js';
import sinon from 'sinon';
import { checkLicense } from '../check_license';

describe('check_license', function () {

    let mockXPackInfo;

    beforeEach(function () {
        mockXPackInfo = {
            isAvailable: sinon.stub(),
            isXpackUnavailable: sinon.stub(),
            feature: sinon.stub(),
            license: sinon.stub({
                isOneOf() {},
            })
        };

        mockXPackInfo.isAvailable.returns(true);
    });

    it('should display error when ES is unavailable', () => {
        mockXPackInfo.isAvailable.returns(false);
        mockXPackInfo.isXpackUnavailable.returns(false);

        const licenseCheckResults = checkLicense(mockXPackInfo);
        expect(licenseCheckResults).to.be.eql({
            showLogin: true,
            allowLogin: false,
            showLinks: false,
            allowRoleDocumentLevelSecurity: false,
            allowRoleFieldLevelSecurity: false,
            layout: 'error-es-unavailable',
            allowRbac: false,
        });
    });

    it('should display error when X-Pack is unavailable', () => {
        mockXPackInfo.isAvailable.returns(false);
        mockXPackInfo.isXpackUnavailable.returns(true);

        const licenseCheckResults = checkLicense(mockXPackInfo);
        expect(licenseCheckResults).to.be.eql({
            showLogin: true,
            allowLogin: false,
        });
    });
showLinks: false,
allowRoleDocumentLevelSecurity: false,
allowRoleFieldLevelSecurity: false,
layout: 'error-xpack-unavailable',
allowRbac: false,
});
});

it('should not show login page or other security elements if license is basic.', () => {
mockXPackInfo.license.isOneOf.withArgs(['basic']).returns(true);
mockXPackInfo.feature.withArgs('security').returns({
isEnabled: () => { return true; }
});
});

const licenseCheckResults = checkLicense(mockXPackInfo);
expect(licenseCheckResults).to.be.eql(
{
showLogin: false,
allowLogin: false,
showLinks: false,
allowRoleDocumentLevelSecurity: false,
allowRoleFieldLevelSecurity: false,
allowRbac: false,
linksMessage: 'Your Basic license does not support Security. Please upgrade your license.'
});
});

it('should not show login page or other security elements if security is disabled in Elasticsearch.', () => {
mockXPackInfo.license.isOneOf.withArgs(['basic']).returns(false);
mockXPackInfo.feature.withArgs('security').returns({
isEnabled: () => { return false; }
});
});

const licenseCheckResults = checkLicense(mockXPackInfo);
expect(licenseCheckResults).to.be.eql(
{
showLogin: false,
allowLogin: false,
showLinks: false,
allowRoleDocumentLevelSecurity: false,
allowRoleFieldLevelSecurity: false,
allowRbac: false,
linksMessage: 'Access is denied because Security is disabled in Elasticsearch.'
});
});

it('should allow to login and allow RBAC but forbid document level security if license is not platinum or trial.', () => {
mockXPackInfo.license.isOneOf

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const Boom = require('boom');

export function routePreCheckLicense(server) {
  const xpackMainPlugin = server.plugins.xpack_main;
  const pluginId = 'security';
  return function forbidApiAccess(request, reply) {
    const licenseCheckResults = xpackMainPlugin.info.feature(pluginId).getLicenseCheckResults();

    // Check if the license is platinum or trial
    if (licenseCheckResults.isOneOf(['platinum', 'trial'])) {
      const features = licenseCheckResults.features;
      const securityFeature = features.find(f => f.name === 'security');

      const isEnabled = securityFeature?.isEnabled;
      const showLogin = isEnabled ? true : false;
      const allowLogin = true;
      const showLinks = true;
      const allowRoleDocumentLevelSecurity = true;
      const allowRoleFieldLevelSecurity = true;
      const allowRbac = true;

      expect(checkLicense(mockXPackInfo)).to.be.eql({
        showLogin: showLogin,
        allowLogin: allowLogin,
        showLinks: showLinks,
        allowRoleDocumentLevelSecurity: allowRoleDocumentLevelSecurity,
        allowRoleFieldLevelSecurity: allowRoleFieldLevelSecurity,
        allowRbac: allowRbac,
      });
    }
  }
}

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 */
if (!licenseCheckResults.showLinks) {
    reply(Boom.forbidden(licenseCheckResults.linksMessage));
} else {
    reply();
}
}

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 */

import { XPackInfoProvider } from 'plugins/xpack_main/services/xpack_info';
import { Notifier } from 'ui/notify';

export function checkLicenseError(kbnUrl, Promise, Private) {
    const xpackInfo = Private(XPackInfoProvider);
    const genericNotifier = new Notifier({ location: 'Security' });

    return err => {
        if (!xpackInfo.get('features.security.showLinks')) {
            genericNotifier.error(xpackInfo.get('features.security.linksMessage'));
            kbnUrl.redirect('/management');
            return Promise.halt();
        }
        return Promise.reject(err);
    }
}

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 */

import { mirrorPluginStatus } from '../../../../../server/lib/mirror_plugin_status';
import { checkLicense } from '../check_license';
import { PLUGIN } from '../../../common/constants';

export function registerLicenseChecker(server) {
    const xpackMainPlugin = server.plugins.xpack_main;
    const indexManagementPlugin = server.plugins.index_management;
    mirrorPluginStatus(xpackMainPlugin, indexManagementPlugin);
    xpackMainPlugin.status.once('green', () => {
        // Register a function that is called whenever the xpack info changes,
        // to re-compute the license check results for this plugin
        xpackMainPlugin.info.feature(PLUGIN.ID).registerLicenseCheckResultsGenerator(checkLicense);
    });
}
export function checkLicense(xpackLicenseInfo) {
    const pluginName = 'Index Management';

    // If, for some reason, we cannot get the license information
    // from Elasticsearch, assume worst case and disable
    if (!xpackLicenseInfo || !xpackLicenseInfo.isAvailable()) {
        return {
            isAvailable: false,
            showLinks: true,
            enableLinks: false,
            message: `You cannot use ${pluginName} because license information is not available at this time.``
        };
    }

    const VALID_LICENSE_MODES = [
        'trial',
        'basic',
        'standard',
        'gold',
        'platinum'
    ];

    const isLicenseModeValid = xpackLicenseInfo.license.isOneOf(VALID_LICENSE_MODES);
    const isLicenseActive = xpackLicenseInfo.license.isActive();
    const licenseType = xpackLicenseInfo.license.getType();

    // License is not valid
    if (!isLicenseModeValid) {
        return {
            isAvailable: false,
            showLinks: false,
            message: `Your ${licenseType} license does not support ${pluginName}. Please upgrade your license.`
        };
    }

    // License is valid but not active
    if (!isLicenseActive) {
        return {
            isAvailable: false,
            showLinks: true,
        }
    }

    return {
        isAvailable: true,
        showLinks: true,
        enableLinks: true,
        message: `You can use ${pluginName} because your license supports it.``
    };
}
enableLinks: false,
message: `You cannot use ${pluginName} because your ${licenseType} license has expired.`,
};

// License is valid and active
return {
  isAvailable: true,
  showLinks: true,
  enableLinks: true
};
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 */

import expect from 'expect.js';
import { set } from 'lodash';
import { checkLicense } from '../check_license';

describe('check_license', function () {

  let mockLicenseInfo;
  beforeEach(() => mockLicenseInfo = {});

describe('license information is undefined', () => {
  beforeEach(() => mockLicenseInfo = undefined);

  it('should set isAvailable to false', () => {
    expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
  });

  it('should set showLinks to true', () => {
    expect(checkLicense(mockLicenseInfo).showLinks).to.be(true);
  });

  it('should set enableLinks to false', () => {
    expect(checkLicense(mockLicenseInfo).enableLinks).to.be(false);
  });

  it('should set a message', () => {
    expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
  });

  describe('license information is not available', () => {

beforeEach(() => mockLicenseInfo.isAvailable = () => false);

it('should set isAvailable to false', () => {
  expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
});

it('should set showLinks to true', () => {
  expect(checkLicense(mockLicenseInfo).showLinks).to.be(true);
});

it('should set enableLinks to false', () => {
  expect(checkLicense(mockLicenseInfo).enableLinks).to.be(false);
});

it('should set a message', () => {
  expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
});

describe('license information is available', () => {
  beforeEach(() => {
    mockLicenseInfo.isAvailable = () => true;
    set(mockLicenseInfo, 'license.getType', () => 'basic');
  });

  describe('& license is trial, standard, gold, platinum', () => {
    beforeEach(() => set(mockLicenseInfo, 'license.isOneOf', () => true));

    describe('& license is active', () => {
      beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => true));

      it('should set isAvailable to true', () => {
        expect(checkLicense(mockLicenseInfo).isAvailable).to.be(true);
      });

      it('should set showLinks to true', () => {
        expect(checkLicense(mockLicenseInfo).showLinks).to.be(true);
      });

      it('should set enableLinks to true', () => {
        expect(checkLicense(mockLicenseInfo).enableLinks).to.be(true);
      });

      it('should not set a message', () => {
        expect(checkLicense(mockLicenseInfo).message).to.be(undefined);
      });
    });
  });
});
describe('& license is expired', () => {
  beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => false));

  it('should set isAvailable to false', () => {
    expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
  });

  it('should set showLinks to true', () => {
    expect(checkLicense(mockLicenseInfo).showLinks).to.be(true);
  });

  it('should set enableLinks to false', () => {
    expect(checkLicense(mockLicenseInfo).enableLinks).to.be(false);
  });

  it('should set a message', () => {
    expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
  });
});

describe('& license is basic', () => {
  beforeEach(() => set(mockLicenseInfo, 'license.isOneOf', () => true));

  describe('& license is active', () => {
    beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => true));

    it('should set isAvailable to true', () => {
      expect(checkLicense(mockLicenseInfo).isAvailable).to.be(true);
    });

    it('should set showLinks to true', () => {
      expect(checkLicense(mockLicenseInfo).showLinks).to.be(true);
    });

    it('should set enableLinks to true', () => {
      expect(checkLicense(mockLicenseInfo).enableLinks).to.be(true);
    });

    it('should not set a message', () => {
      expect(checkLicense(mockLicenseInfo).message).to.be(undefined);
    });
  });

  describe('& license is expired', () => {
    beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => false));

    it('should set isAvailable to false', () => {
    });
  });
});
expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
});

it('should set showLinks to true', () => {
    expect(checkLicense(mockLicenseInfo).showLinks).to.be(true);
});

it('should set a message', () => {
    expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
});
});
});
});
*/

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*/

import { mirrorPluginStatus } from '../../../../../server/lib/mirror_plugin_status';
import { checkLicense } from '../check_license';
import { PLUGIN } from '../../../common/constants';

export function registerLicenseChecker(server) {
    const xpackMainPlugin = server.plugins.xpack_main;
    const grokdebuggerPlugin = server.plugins[PLUGIN.ID];

    mirrorPluginStatus(xpackMainPlugin, grokdebuggerPlugin);
    xpackMainPlugin.status.once('green', () => {
        // Register a function that is called whenever the xpack info changes,
        // to re-compute the license check results for this plugin
        xpackMainPlugin.info.feature(PLUGIN.ID).registerLicenseCheckResultsGenerator(checkLicense);
    });
}
*/

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*/

export function checkLicense(xpackLicenseInfo) {
    // If, for some reason, we cannot get the license information
    // from Elasticsearch, assume worst case and disable the Watcher UI
    if (!xpackLicenseInfo || !xpackLicenseInfo.isAvailable()) {
        return {
            enableLink: false,
            enableAPIRoute: false,
        };
    }

    const expansions = xpackLicenseInfo.expansions;
    if (!expansions) {
        ...
message: 'You cannot use the Grok Debugger because license information is not available at this time.'

const isLicenseActive = xpackLicenseInfo.license.isActive();
const licenseType = xpackLicenseInfo.license.getType();

// License is not valid
if (!isLicenseActive) {
    return {
        enableLink: false,
        enableAPIRoute: false,
        message: `You cannot use the Grok Debugger because your ${licenseType} license has expired.`
    };
}

// License is valid and active
return {
    enableLink: true,
    enableAPIRoute: true
};

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 */

import expect from 'expect.js';
import { set } from 'lodash';
import { checkLicense } from '../check_license';

describe('check_license', function () {

    let mockLicenseInfo;
    beforeEach(() => mockLicenseInfo = {});

    describe('license information is undefined', () => {
        beforeEach(() => mockLicenseInfo = undefined);

        it('should set enableLink to false', () => {
            expect(checkLicense(mockLicenseInfo).enableLink).to.be(false);
        });

        it('should set enableAPIRoute to false', () => {
            expect(checkLicense(mockLicenseInfo).enableAPIRoute).to.be(false);
        });
    });

...
it('should set a message', () => {
  expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
});

describe('license information is not available', () => {
  beforeEach(() => mockLicenseInfo.isAvailable = () => false);

  it('should set enableLink to false', () => {
    expect(checkLicense(mockLicenseInfo).enableLink).to.be(false);
  });

  it('should set enableAPIRoute to false', () => {
    expect(checkLicense(mockLicenseInfo).enableAPIRoute).to.be(false);
  });

  it('should set a message', () => {
    expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
  });
});

describe('license information is available', () => {
  beforeEach(() => mockLicenseInfo = {
    isAvailable: () => true,
    license: {
      getType: () => 'foobar'
    }
  });

  describe('& license is active', () => {
    beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => true));

    it('should set enableLink to true', () => {
      expect(checkLicense(mockLicenseInfo).enableLink).to.be(true);
    });

    it('should set enableAPIRoute to true', () => {
      expect(checkLicense(mockLicenseInfo).enableAPIRoute).to.be(true);
    });

    it('should NOT set a message', () => {
      expect(checkLicense(mockLicenseInfo).message).to.be(undefined);
    });
  });

  describe('& license is expired', () => {
    beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => false));

    it('should set a message', () => {
      expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
    });
  });
});
it('should set enableLink to false', () => {
  expect(checkLicense(mockLicenseInfo).enableLink).to.be(false);
});

it('should set enableAPIRoute to false', () => {
  expect(checkLicense(mockLicenseInfo).enableAPIRoute).to.be(false);
});

it('should set a message', () => {
  expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
});
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 */

import Boom from 'boom';
import { PLUGIN } from '../../../common/constants';

export const licensePreRoutingFactory = (server) => {
  const xpackMainPlugin = server.plugins.xpack_main;

  // License checking and enable/disable logic
  function licensePreRouting(request, reply) {
    const licenseCheckResults = xpackMainPlugin.info.feature(PLUGIN.ID).getLicenseCheckResults();
    if (!licenseCheckResults.enableAPIRoute) {
      reply(Boom.forbidden(licenseCheckResults.message));
    } else {
      reply();
    }
  }

  return licensePreRouting;
};
/*
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 */

import expect from 'expect.js';
import Boom from 'boom';
import { licensePreRoutingFactory } from '../license_pre_routing_factory';
describe('license_pre_routing_factory', () => {
    describe('#grokDebuggerFeaturePreRoutingFactory', () => {
        let mockServer;
        let mockLicenseCheckResults;

        beforeEach(() => {
            mockServer = {
                plugins: {
                    xpack_main: {
                        info: {
                            feature: () => ({
                                getLicenseCheckResults: () => mockLicenseCheckResults
                            })
                        }
                    }
                }
            };
        });

        describe('isAvailable is false', () => {
            beforeEach(() => {
                mockLicenseCheckResults = {
                    isAvailable: false
                };
            });

            it ('replies with 403', (done) => {
                const licensePreRouting = licensePreRoutingFactory(mockServer);
                const stubRequest = {};
                licensePreRouting(stubRequest, (response) => {
                    expect(response).to.be.an(Error);
                    expect(response.isBoom).to.be(true);
                    expect(response.output.statusCode).to.be(403);
                    done();
                });
            });

            describe('isAvailable is true', () => {
                beforeEach(() => {
                    mockLicenseCheckResults = {
                        isAvailable: true
                    };
                });

                it ('replies with nothing', (done) => {
                    const licensePreRouting = licensePreRoutingFactory(mockServer);
                    const stubRequest = {};
                    licensePreRouting(stubRequest, (response) => {
                        expect(response).to.be.an(Error);
                        expect(response.isBoom).to.be(true);
                        expect(response.output.statusCode).to.be(403);
                        done();
                    });
                });
            });
        });
    });
});
Open Source Used In Managed Services Accelerator 3.5.1

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H.uh
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![image](images/management-license.png)
The 30-day trial enables you to try out the full set of features at https://www.elastic.co/subscriptions[Platinum features], including security, machine learning, alerting, graph capabilities, and more. For example, the following pages are added to the side navigation:

* **Machine Learning**
* **Graph**

The **Management** page gains options related to configuring security, managing pipelines, and using {watcher}.

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NOTE: Watcher must be enabled to view cluster alerts. If you have a Basic license, Top Cluster Alerts are not displayed.

Kibana source code with Kibana X-Pack source code
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---

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Pretty handling of logarithmic axes.
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Created by Arne de Laat
Set axis.mode to "log" and make the axis logarithmic using transform:

```javascript
axis: {
    mode: 'log',
    transform: function(v) {v <= 0 ? Math.log(v) / Math.LN10 : null},
    inverseTransform: function(v) {Math.pow(10, v)}
}
```

The transform filters negative and zero values, because those are invalid on logarithmic scales.
This plugin tries to create good looking logarithmic ticks, using unicode superscript characters. If all data to be plotted is between two powers of ten then the default flot tick generator and renderer are used. Logarithmic ticks are places at powers of ten and at half those values if there are not to many ticks already (e.g. [1, 5, 10, 50, 100]).
For details, see https://github.com/flot/flot/pull/1328

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https://github.com/jserz/js_piece

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---

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Posted Date: April 20, 2018

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require('./src/setup_node_env');
require('./src/dev/notice/cli');
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*/

import licenseChecker from 'license-checker';

export function callLicenseChecker(options = {}) {
    const {
        directory,
        dev = false
    } = options;

    if (!directory) {
        throw new Error('You must specify the directory where license checker should start');
    }

    return new Promise((resolve, reject) => {
        licenseChecker.init({
            start: directory,
            production: !dev,
            json: true,
            customFormat: {
                realPath: true,
                licenseText: false,
                licenseFile: false
            }
        }, (err, licenseInfo) => {
            if (err) {
                reject(err);
            } else {
                resolve(licenseInfo);
            }
        });
    });
}
if (err) reject(err);
else resolve(licenseInfo);
});
});
}
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  '(GPL-2.0 OR MIT)',
  '(MIT AND CC-BY-3.0)',
  '(MIT AND Zlib)',
  '(MIT OR Apache-2.0)',
  '(WTFPL OR MIT)',
  'AFLv2.1',
  'Apache 2.0',
  'Apache License, v2.0',
  'Apache License, Version 2.0',
  'Apache',
  'Apache*',
  'Apache, Version 2.0',
  'Apache-2.0',
  'BSD 3-Clause',
  'BSD New',
  'BSD',
  'BSD*',
  'BSD-2-Clause',
  'BSD-3-Clause AND MIT',
  'BSD-3-Clause OR MIT',
  'CC-BY-3.0',
  'Elasticsearch'
'BSD-3-Clause',
'BSD-like',
'CC0-1.0',
'CC-BY',
'CC-BY-3.0',
'CC-BY-4.0',
'ISC',
'MIT OR GPL-2.0',
'MIT',
'MIT*',
'MIT/X11',
'new BSD, and MIT',
'OFL-1.1 AND MIT',
'Public Domain',
'Unlicense',
'WTFPL OR ISC',
'WTFPL',
];

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  // TODO can be removed once we upgrade past elasticsearch-browser@14.0.0
  'elasticsearch-browser@13.0.1': ['Apache-2.0'],

  // TODO can be removed once we upgrade past colors.js@1.0.0
  'colors@0.5.1': ['MIT'],

  // TODO can be removed once we upgrade past map-stream@0.5.0
  'map-stream@0.1.0': ['MIT'],
  'uglify-js@2.2.5': ['BSD'],
  'png-js@0.1.1': ['MIT'],
  'sha.js@2.4.11': ['BSD-3-Clause AND MIT'],
};

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*/
```javascript
const describeInvalidLicenses = getInvalid => pkg => (`
${pkg.name}
  version: ${pkg.version}
  all licenses: ${pkg.licenses}
  invalid licenses: ${getInvalid(pkg.licenses).join(', ')}
  path: ${pkg.relative}
`);

/**
 * When given a list of packages and the valid license
 * options, either throws an error with details about
 * violations or returns undefined.
 *
 * @param {Object} [options={}]
 * @property {Array<Package>} options.packages List of packages to check, see
 * getInstalledPackages() in ../packages
 * @property {Array<string>} options.validLicenses
 * @return {undefined}
 */
export function assertLicensesValid(options = {}) {
  const {
    packages,
    validLicenses
  } = options;

  if (!packages || !validLicenses) {
    throw new Error('packages and validLicenses options are required');
  }

  const getInvalid = licenses => (
    licenses.filter(license => !validLicenses.includes(license))
  );

  const isPackageInvalid = pkg => (
    !pkg.licenses.length || getInvalid(pkg.licenses).length > 0
  );

  const invalidMsgs = packages
    .filter(isPackageInvalid)
    .map(describeInvalidLicenses(getInvalid));

  if (invalidMsgs.length) {
    throw new Error(`Non-conforming licenses: ${invalidMsgs.join('')}`);
  }
```

export { LICENSE_WHITELIST, LICENSE_OVERRIDES } from './config';
export { assertLicensesValid } from './valid';

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*/

import { resolve } from 'path';
import expect from 'expect.js';
import { assertLicensesValid } from './valid';
const ROOT = resolve(__dirname, '../..');
const NODE_MODULES = resolve(ROOT, './node_modules');

const PACKAGE = {
  name: '@elastic/httpolyglot',
  version: '0.1.2-elasticpatch1',
  licenses: ['MIT'],
  directory: resolve(NODE_MODULES, '@elastic/httpolyglot'),
  relative: 'node_modules/@elastic/httpolyglot',
};

describe('tasks/lib/licenses', () => {
  describe('assertLicensesValid()', () => {
    it('returns undefined when package has valid license', () => {
      expect(assertLicensesValid({
        packages: [PACKAGE],
        validLicenses: [...PACKAGE.licenses]
      })).to.be(undefined);
    });
    it('throw an error when the packages license is invalid', () => {
      expect(() => {
        assertLicensesValid({
          packages: [PACKAGE],
          validLicenses: ['not ${PACKAGE.licenses[0]}']
        }).to.throwError(PACKAGE.name);
      });
    });
    it('throws an error when the package has no licenses', () => {
      expect(() => {
        assertLicensesValid({
          packages: [
            ...
          PACKAGE,
          licenses: []
        ],
        validLicenses: [...PACKAGE.licenses]
      }).to.throwError(PACKAGE.name);
    });
    it('includes the relative path to packages in error message', () => {
      try {
        assertLicensesValid({
          packages: [PACKAGE],
          validLicenses: ['none']
        }).to.throwError(PACKAGE.name);
      } catch (e) {
        expect(e).to.contain(PACKAGE.relative);
      }
    });
  });
});
throw new Error('expected assertLicensesValid() to throw');
} catch (error) {
    expect(error.message).to.contain(PACKAGE.relative);
    expect(error.message).to.not.contain(PACKAGE.directory);
}
});
});
});

Notice me!
{
    "name": "foo",
    "version": "1.0.0",
    "license": "Apache 2.0"
}
MIT
{
    "name": "bar",
    "version": "1.0.0",
    "license": "MIT"
}

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*/

import { generatePackageNoticeText } from './generate_package_notice_text';
import { generateNodeNoticeText } from './generate_node_notice_text';

/**
* When given a list of packages and the directory to the node distribution that will be shipping with Kibana,
* generates the text for NOTICE.txt
*
export async function generateBuildNoticeText(options = {}) {
  const { packages, nodeDir, nodeVersion, noticeFromSource } = options;

  const packageNotices = await Promise.all(
    packages.map(generatePackageNoticeText)
  );

  return [
    noticeFromSource,
    ...packageNotices,
    generateNodeNoticeText(nodeDir, nodeVersion),
  ].join('---
');
}

const packageNotices = await Promise.all(
  packages.map(generatePackageNoticeText)
);

return [
  noticeFromSource,
  ...packageNotices,
  generateNodeNoticeText(nodeDir, nodeVersion),
].join('---
');

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const NOTICE_COMMENT_RE = /\*\*\@[s\s\n\r\t]*\@notice\([\w\W]*\)\*\//g;
const NEWLINE_RE = /\r?\n/g;

//**
* Generates the text for the NOTICE.txt file at the root of the
* repo which details the licenses for code that is copied/vendored
* into the repository.

import vfs from 'vinyl-fs';
export async function generateNoticeFromSource({ productName, directory, log }) {
  const globs = [
    '**/*.js,less,css,ts',
  ];

  const options = {
    cwd: directory,
    nodir: true,
    ignore: [
      '{node_modules,build,target,dist,optimize}/**',
      'packages/*/node_modules,build,target,dist/**',
      'x-pack/{node_modules,build,target,dist,optimize}/**',
      'x-pack/packages/*/node_modules,build,target,dist/**',
    ],
  };

  log.debug('vfs.src globs', globs);
  log.debug('vfs.src options', options);
  log.info(`Searching ${directory} for multi-line comments starting with @notice`);

  const files = vfs.src(globs, options);
  const noticeComments = [];
  await new Promise((resolve, reject) => {
    files.on('data', (file) => {
      log.verbose(`Checking for @notice comments in ${file.relative}`);
      const source = file.contents.toString('utf8');
      let match;
      while ((match = NOTICE_COMMENT_RE.exec(source)) !== null) {
        log.info(`Found @notice comment in ${file.relative}`);
        noticeComments.push(match[1]);
      }
    }).on('error', reject).on('end', resolve);
  });

  let noticeText = `; noticeText += ` + productName + `; noticeText += Copyright 2012-${(new Date()).getUTCFullYear()} Elasticsearch B.V.
`;
for (const comment of noticeComments.sort()) {
    noticeText += 'n---n';
    noticeText += comment
        .split(NEWLINE_RE)
        .map(line => {
            line
                // trim whitespace
                .trim()
                // trim leading * and a single space
                .replace(/(\^* ?)/, '')
        })
        .join('n')
        .trim();
    noticeText += 'n';
}

noticeText += 'n';

log.debug(`notice text:

${noticeText}`);
return noticeText;

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*/

import { resolve } from 'path';
import { readFileSync } from 'fs';

export function generateNodeNoticeText(nodeDir, nodeVersion) {
    const licensePath = resolve(nodeDir, 'LICENSE');
    const license = readFileSync(licensePath, 'utf8');
    return `This product bundles Node.js v${nodeVersion}

${license}`;
import { getBundledNotices } from './bundled_notices';

const concatNotices = notices => notices.map(notice => notice.text).join('
');

export async function generatePackageNoticeText(pkg) {
  const bundledNotices = concatNotices(await getBundledNotices(pkg.directory));
  const intro = `This product bundles ${pkg.name}@${pkg.version}`;
  const license = ` which is available under ${pkg.licenses.length > 1
    ? `the
      "${pkg.licenses.join('", "')}" licenses.``
    : `a
      "${pkg.licenses[0]}" license.``}
`;
  const moreInfo = bundledNotices
    ? `\n      ${bundledNotices} \n    ` : ` For details, see ${pkg.relative}/.`;

  return `\n    ${intro}\n` + license + moreInfo;
}

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*/

import { readFileSync, writeFileSync } from 'fs';
import { resolve } from 'path';

import getopts from 'getopts';
import dedent from 'dedent';
import { createToolingLog, pickLevelFromFlags } from '@kbn/dev-utils';

import { REPO_ROOT } from '../constants';
import { generateNoticeFromSource } from './generate_notice_from_source';

const unknownFlags = [];
const opts = getopts(process.argv.slice(2), { boolean: ['help', 'validate', 'verbose', 'debug'], unknown(flag) {
    unknownFlags.push(flag);
}});

const log = createToolingLog(pickLevelFromFlags(opts));
log.pipe(process.stdout);

if (unknownFlags.length) {
    log.error('Unknown flags ${unknownFlags.map(f => `"${f}"`).join(',')}');
    process.exitCode = 1;
    opts.help = true;
}

if (opts.help) {
    process.stdout.write('
' + dedent`
Generate or validate NOTICE.txt.
Entries are collected by finding all multi-line comments that start

`);
with a "@notice" tag and copying their text content into NOTICE.txt.

Options:
--help      Show this help info
--validate  Don't write the NOTICE.txt, just fail if updates would have been made
--verbose   Set logging level to verbose
--debug     Set logging level to debug

process.exit();
}

(async function run() {
const path = resolve(REPO_ROOT, 'NOTICE.txt');
const newContent = await generateNoticeFromSource({
    productName: 'Kibana source code with Kibana X-Pack source code',
    directory: REPO_ROOT,
    log,
});

const currentContent = readFileSync(path, 'utf8');
if (currentContent === newContent) {
    log.success('NOTICE.txt is up to date');
    return;
}

if (!opts.validate) {
    log.success('Wrote notice text to NOTICE.txt');
    writeFileSync(path, newContent, 'utf8');
    return;
}

log.error('NOTICE.txt is out of date, run `node scripts/notice` to update and commit the results.');
process.exit(1);
}().catch(error => {
    log.error(error);
    process.exit(1);
});

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*/
import { resolve } from 'path';
import { readFileSync } from 'fs';
import { generateBuildNoticeText } from './generate_build_notice_text';

const NODE_MODULES = resolve(__dirname, '__fixtures__/node_modules');
const NODE_DIR = resolve(process.execPath, '../..');
const NODE_VERSION = '8.11.3';
const PACKAGES = [
    {
        name: 'bar',
        version: '1.0.0',
        licenses: ['MIT'],
        directory: resolve(NODE_MODULES, 'bar'),
        relative: 'node_modules/bar',
    },
    {
        name: 'foo',
        version: '1.0.0',
        licenses: ['Apache 2.0'],
        directory: resolve(NODE_MODULES, 'foo'),
        relative: 'node_modules/foo',
    },
];

describe('src/dev/build/tasks/notice_file/generate_notice', () => {
    describe('generateBuildNoticeText()', () => {
        let notice;
        beforeAll(async () => {
            notice = await generateBuildNoticeText({
                packages: PACKAGES,
                nodeDir: NODE_DIR,
                nodeVersion: NODE_VERSION,
                noticeFromSource: 'NOTICE_FROM_SOURCE
'
            })
        });

        it('returns a string', () => {
            expect(typeof notice).toBe('string');
        });
    });
});
it('includes *NOTICE* files from packages', () => {
  expect(notice).toEqual(expect.stringContaining(
    readFileSync(resolve(NODE_MODULES, 'foo/NOTICE.txt'), 'utf8')
  ));
});

it('includes *LICENSE* files from packages', () => {
  expect(notice).toEqual(expect.stringContaining(
    readFileSync(
      resolve(NODE_MODULES, 'bar/LICENSE.md'),
      'utf8'
    )
  ));
});

it('includes the LICENSE file from node', () => {
  expect(notice).toEqual(expect.stringContaining(
    readFileSync(resolve(NODE_DIR, 'LICENSE'), 'utf8')
  ));
});

it('includes node version', () => {
  expect(notice).toEqual(expect.stringContaining(
    'This product bundles Node.js v8.11.3'
  ));
});

it('includes the noticeFromSource', () => {
  expect(notice).toEqual(expect.stringContaining(
    'NOTICE_FROM_SOURCE'
  ));
});

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export { generateNoticeFromSource } from './generate_notice_from_source';
export { generateBuildNoticeText } from './generate_build_notice_text';

import { resolve } from 'path';
import { readFile } from 'fs';
import { fromNode as fcb } from 'bluebird';
import glob from 'glob';

export async function getBundledNotices(packageDirectory) {
  const pattern = resolve(packageDirectory, '*{LICENSE,NOTICE}*');
  const paths = await fcb(cb => glob(pattern, cb));
  return Promise.all(
    paths.map(async path => ({
      path,
      text: await fcb(cb => readFile(path, 'utf8', cb)),
    })))
  )
}

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/!

import { write, read } from '../lib';

export const UpdateLicenseFileTask = {
  description: 'Updating LICENSE.txt file',
  async run(config, log, build) {
    if (build.isOss()) {
      log.info('Copying Apache 2.0 license to LICENSE.txt');
      await write(
        build.resolvePath('LICENSE.txt'),
        await read(config.resolveFromRepo('licenses/APACHE-LICENSE-2.0.txt'))
      );
    } else {
      log.info('Copying Elastic license to LICENSE.txt');
      await write(
        build.resolvePath('LICENSE.txt'),
        await read(config.resolveFromRepo('licenses/ELASTIC-LICENSE.txt'))
      );
    }
  },
};

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 */

import { writeFileSync } from 'fs';
import { resolve } from 'path';
import { getInstalledPackages } from '../src/dev/npm';
import { LICENSE_OVERRIDES } from '../src/dev/license_checker';

import {
  isNull,
  isUndefined
} from 'lodash';

const allDoubleQuoteRE = /"/g;
function escapeValue(value) {
  if (isNull(value)) {
    return;
  }

  return `"${value.replace(allDoubleQuoteRE, '""')}"`;
}

function formatCsvValues(fields, values) {
  return fields.map((field) => {
    const value = values[field];
    if (isNull(value) || isUndefined(value)) {
      return null;
    }

    return value.toString();
  })
    .map(escapeValue)
    .join('"');
}

export default function licensesCSVReport(grunt) {
  grunt.registerTask('licenses:csv_report', 'Report of 3rd party dependencies', async function () {
    const fields = ['name', 'version', 'url', 'license'];
    const done = this.async();

    try {
      const file = grunt.option('csv');
      const directory = grunt.option('directory');
      const dev = Boolean(grunt.option('dev'));

      const packages = await getInstalledPackages({
        directory: directory ? resolve(directory) : grunt.config.get('root'),
        licenseOverrides: LICENSE_OVERRIDES,
        dev
      });

      const csv = packages.map(pkg => {
        const data = {
          name: pkg.name,
          version: pkg.version,
          url: pkg.repository || `https://www.npmjs.com/package/${pkg.name}`,
          license: pkg.licenses.join(',')
        };

        return formatCsvValues(fields, data);
      });
    }
  });
import { getInstalledPackages } from '../src/dev/npm';
import {
  assertLicensesValid,
  LICENSE_WHITELIST,
  LICENSE_OVERRIDES,
} from '../src/dev/license_checker';

export default function licenses(grunt) {
  grunt.registerTask('licenses', 'Checks dependency licenses', async function () {
    const done = this.async();
    try {
      if (file) {
        writeFileSync(file, `${fields.join('')}
$\{csv\}`);
        grunt.log.writeln(`wrote to ${file}`);
      } else {
        grunt.log.writeln(csv);
        grunt.log.writeln(`
specify "--csv [filepath]" to write the data to a specific file`);
      }
      done();
    } catch (err) {
      grunt.fail.fatal(err);
    }
  });
*/
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*/

if (file) {
  writeFileSync(file, `${fields.join('')}\n${csv}`);
  grunt.log.writeln(`wrote to ${file}`);
} else {
  grunt.log.writeln(csv);
  grunt.log.writeln(`
specify "--csv [filepath]" to write the data to a specific file`);
}

done();
} catch (err) {
  grunt.fail.fatal(err);
  done(err);
}
const dev = Boolean(grunt.option('dev'));

assertLicensesValid({
    packages: await getInstalledPackages(
        directory: grunt.config.get('root'),
        licenseOverrides: LICENSE_OVERRIDES,
        dev
    ),
    validLicenses: LICENSE_WHITELIST
});

done();
} catch (err) {
    grunt.fail.fatal(err);
    done(err);
}
}

$noticeBackgroundColor: #FFF;
$noticeTitleFontSize: 22px;

@import "notice";
.kuiNotice {
    padding: 40px 60px 48px;
    margin: 20px;
    background-color: $noticeBackgroundColor;
    line-height: $kuiLineHeight;
}

/*
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*/

import React from 'react';
import {
  GuideDemo,
  GuideSandbox,
  GuideSandboxCodeToggle,
  GuideSectionTypes,
} from './components';

const html = require('./notice_sandbox.html');

export default props => (
  <GuideSandbox>
    <GuideDemo
      isFullScreen={true}
      html={html}
    />
    <GuideSandboxCodeToggle
      source={[{
        type: GuideSectionTypes.HTML,
        code: html,
      }]} title={props.route.name}
    />
  </GuideSandbox>
);
const babelEslint = require('babel-eslint');

const { assert, normalizeWhitespace, init } = require('../lib');

function isHashbang(text) {
  return text.trim().startsWith('#!') && !text.trim().includes('
');
}

module.exports = {
  meta: {
    fixable: 'code',
    schema: [
      {
        type: 'object',
        properties: {
          license: {
            type: 'string',
          },
        },
        additionalProperties: false,
      }
    ],
  },
  create: context => {
    return {
      Program(program) {
        const license = init(context, program, function () {
          const options = context.options[0] || {};
          const license = options.license;
          });
      }
    }
  },
}
assert(!license, ""license" option is required");

const parsed = babelEslint.parse(license);
assert(parsed.body.length, ""license" option must only include a single comment");
assert(parsed.comments.length === 1, ""license" option must only include a single comment");

return {
  source: license,
  nodeValue: normalizeWhitespace(parsed.comments[0].value)
};

if (!license) {
  return;
}

const sourceCode = context.getSourceCode();
const comment = sourceCode.getAllComments().find(node => (normalizeWhitespace(node.value) === license.nodeValue));

// no licence comment
if (!comment) {
  context.report({
    message: 'File must start with a license header',
    loc: {
      start: { line: 1, column: 0 },
      end: { line: 1, column: sourceCode.lines[0].length - 1 }
    },
    fix(fixer) {
      if (isHashbang(sourceCode.lines[0])) {
        return undefined;
      }

      return fixer.replaceTextRange([0, 0], license.source + '\n\n');
    }
  });
  return;
}

// ensure there is nothing before the comment
const sourceBeforeNode = sourceCode.getText().slice(0, sourceCode.getIndexFromLoc(comment.loc.start));
if (sourceBeforeNode.length && !isHashbang(sourceBeforeNode)) {
  context.report({
    node: comment,
    message: 'License header must be at the very beginning of the file',
    fix(fixer) {
      return fixer.replaceTextRange([0, 0], license.source + '\n\n');
    }
  });
}
// replace leading whitespace if possible
if (sourceBeforeNode.trim() === ")") {
    return fixer.replaceTextRange([0, sourceBeforeNode.length], "")
;
}

// inject content at top and remove node from current location
// if removing whitespace is not possible
return [
    fixer.remove(comment),
    fixer.replaceTextRange([0, 0], license.source + '\n' + license.source + '\n'),

];

*/

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* specific language governing permissions and limitations under the License.
*/

const babelEslint = require('babel-eslint');

const { assert, normalizeWhitespace, init } = require('./lib');

module.exports = {
    meta: {
        fixable: 'code',
        schema: [{
            type: 'object',
            properties: {
                licenses: {
                }}
            },
            },
            },
            }
            ];


type: 'array',
  items: {
    type: 'string'
  },
  additionalProperties: false,
}
create: context => {
  return {
    Program(program) {
      const nodeValues = init(context, program, () => {
        const options = context.options[0] || {};
        const licenses = options.licenses;

        assert(!!licenses, ""licenses" option is required");

        return licenses.map((license, i) => {
          const parsed = babelEslint.parse(license);

          assert(!parsed.body.length, ""licenses[${i}]" option must only include a single comment");
          assert(parsed.comments.length === 1, ""licenses[${i}]" option must only include a single comment");

          return normalizeWhitespace(parsed.comments[0].value);
        });
      });

      if (!nodeValues) return;

      const sourceCode = context.getSourceCode();

      sourceCode
        .getAllComments()
        .filter(node => (
          nodeValues.find(nodeValue => (
            normalizeWhitespace(node.value) === nodeValue
          ))
        ).forEach(node => {
          context.report({
            node,
            message: 'Remove outdated license header.',
            fix(fixer) {
              return fixer.remove(node);
            }
          });
        });
    }
  }
}
const { RuleTester } = require('eslint');
const rule = require('../require_license_header');
const dedent = require('dedent');
const RULE_NAME = '@kbn/license-header/require-license-header';

const ruleTester = new RuleTester({
  parser: 'babel-eslint',
  parserOptions: {
    ecmaVersion: 2015
  }
});
ruleTester.run(RULE_NAME, rule, {
valid: [
  {
    code: dedent
    /* license */

    console.log('foo')
  },
  {
    code: dedent
    /* license */

    console.log('foo')
  },
],
});

const { RuleTester } = require('eslint');
const rule = require('./require_license_header');
const dedent = require('dedent');
const RULE_NAME = '@kbn/license-header/require-license-header';

const ruleTester = new RuleTester({
  parser: 'babel-eslint',
  parserOptions: {
    ecmaVersion: 2015
  }
});
ruleTester.run(RULE_NAME, rule, {
valid: [
  {
    code: dedent
    /* license */

    console.log('foo')
  },
  {
    code: dedent
    /* license */

    console.log('foo')
  },
],
});
// license

    console.log('foo')

, options: [{ license: '// license' }],
],

invalid: [

  // missing license option
  {
    code: dedent`
    console.log('foo')
    `,
    options: [],
    errors: [
      { message: "'license' option is required',',
      }
    ],
  },

  // content cannot contain multiple block comments
  {
    code: dedent`
    console.log('foo')
    `,
    options: [
      { license: '/* one */// two */' }],
    errors: [
      { message: "'license' option must only include a single comment',
      }
    ],
  },

  // content cannot contain multiple line comments
  {
    code: dedent`
    console.log('foo')
    `,
    options: [
      { license: `// one
      // two` }
    ],
    errors: [
      { message: "'license' option must only include a single comment',
      }
    ],
  },

}
// content cannot contain expressions
{
  code: dedent
    console.log('foo')
  
  options: [
    {
      license: dedent
        /* license */
        console.log('hello world');
        
    }
  ],
  errors: [
    {
      message: ""license" option must only include a single comment",
    }
  ],
},

// content is not a single comment
{
  code: dedent
    console.log('foo')
  
  options: [
    {
      license: `console.log('hello world');` 
    }
  ],
  errors: [
    {
      message: ""license" option must only include a single comment",
    }
  ],
},

// missing license header
{
  code: dedent
  

```javascript
console.log('foo')
`

options: [{ license: '/* license */' }],
errors: [

{
message: 'File must start with a license header',
}
],

output: dedent'
/* license */

console.log('foo')
`

// strips newlines before the license comment
{
  code: '
\n' + dedent'
/* license */

  console.log('foo')
`

options: [{ license: '/* license */' }],
errors: [

{
message: 'License header must be at the very beginning of the file',
}
],

output: dedent'
/* license */

console.log('foo')
`

// moves license header before other nodes if necessary
{
  code: dedent'
  /* not license */
  /* license */
  console.log('foo')
  `

  options: [{ license: '/* license */' }],
```
const { RuleTester } = require('eslint');
const rule = require('./remove_outdated_license_header');
const dedent = require('dedent');

const RULE_NAME = '@kbn/license-header/remove-outdated-license-header';

const ruleTester = new RuleTester({
  parser: 'babel-eslint',
  parserOptions: {
    ecmaVersion: 2015
  }
});
ruleTester.run(RULE_NAME, rule, {

valid: [
    {
        code: dedent'
        /* license */

        console.log('foo')
    },
    {
        code: dedent'
        // license

        console.log('foo')
    },
    {
        code: dedent'
        // license

        console.log('foo')
    },
    {
        code: dedent'
        / * license */

        console.log('foo')
    },
    {
        code: dedent'
        // license

        console.log('foo')
    },
    {
        code: dedent'
        // license

        console.log('foo')
    }
],

invalid: [
    // missing license option
    {
        code: dedent'
        console.log('foo')
    },
    {
        code: dedent'
        console.log('foo')
    },
    {
        code: dedent'
        console.log('foo')
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        console.log('foo')
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    {
        code: dedent'
        console.log('foo')
    },
    {
        code: dedent'
        console.log('foo')
    }],
]
```

// license cannot contain multiple line comments
{
  code: dedent`
  console.log('foo')
}`,,

  options: [{
    licenses: [
      '// one
      // two'
    ]
  }],
  errors: [
    {
      message: '"licenses[0]" option must only include a single comment',
    }
  ],
},

// license cannot contain expressions
{
  code: dedent`
  console.log('foo')
`,,

  options: [{
    licenses: [
      '// old license',
      dedent`
      /* license */
      console.log('hello world');
      `]
  }],
  errors: [
    {
      message: '"licenses[0]" option must only include a single comment',
    }
  ],
},
```

// license cannot contain expressions
{
  code: dedent`
  console.log('foo')
`,,

  options: [{
    licenses: [
      '// old license',
      dedent`
      /* license */
      console.log('hello world');
      `]
  }],
  errors: [
    {
      message: '"licenses[0]" option must only include a single comment',
    }
  ],
},
```
{  
  message: "licenses[1]" option must only include a single comment",
}
]
],

// license is not a single comment
{
  code: 'dedent'
    console.log('foo')
  `,

options: [{
    licenses: [
      '// old license',
      '// older license',
      `console.log('hello world');`
    ]
  }],
errors: [
  {
    message: "licenses[2]" option must only include a single comment",
  }
],
}
});

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 */

exports.assert = function assert(truth, message) {
  if (truth) {
    

return;

const error = new Error(message);
error.failedAssertion = true;
throw error;
};

exports.normalizeWhitespace = function normalizeWhitespace(string) {
    return string.replace(/\s+/g, ' ');  
};

exports.init = function (context, program, initStep) {
    try {
        return initStep();
    } catch (error) {
        if (error.failedAssertion) {
            context.report({
                node: program,
                message: error.message
            });
        } else {
            throw error;
        }
    }
};

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 */

module.exports = {
    rules: {
        'require-license-header': require('./rules/require_license_header'),
    },
dedent@^0.7.0:
  version "0.7.0"
resolved "https://registry.yarnpkg.com/dedent/-/dedent-0.7.0.tgz#2495ddbaf6eb874abb0e1be9df22d2e5a544326c"
{
  "name": "@kbn/eslint-plugin-license-header",
  "version": "1.0.0",
  "private": true,
  "license": "Apache-2.0",
  "peerDependencies": {
    "eslint": ">=4.0.0",
    "babel-eslint": "^8.2.1"
  },
  "dependencies": {
    "dedent": "^0.7.0"
  }
}

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1.94 krb5-locales 1.15-1+deb9u1

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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
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lib/gssapi/mechglue/g_imp_name.c
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lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_credential.c
lib/gssapi/mechglue/g_acquire_cred.c
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lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
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lib/gssapi/mechglue/g_init_sec_context.c
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lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproclog.c

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- `lib/kdb/iprop.x`
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   lib/gssapi/mechglue/g_accept_sec_context.c
   lib/gssapi/mechglue/g_acquire_cred.c
   lib/gssapi/mechglue/g_canon_name.c
   lib/gssapi/mechglue/g_compare_name.c
   lib/gssapi/mechglue/g_context_time.c
and the initial implementation of incremental propagation, including
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.. parsed-literal::

    include/iprop_hdr.h
    kadmin/server/ipropd_svc.c
    lib/kdb/prop.x
    lib/kdb/kdb_convert.c
    lib/kdb/kdb_log.c
    lib/kdb/kdb_log.h
    lib/krb5/error_tables/kdb5_err.et
    slave/kpropd_rpc.c
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/*
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# This program is intended to be used by "make check-copyright". It checks for violations of the coding standards related to copyright and license statements in source code comments.
import os
import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
            break
        elif code_seen:
            warn(fname, ln, 'License after code')
            break
        elif nonlicense_seen:
            warn(fname, ln, 'License after non-license comments')
            break
        if line != '' and line != '-':
            text_seen = True
    return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1
    # Check filename comment if present.
    m = re.match(r'/\* \([^ ]\)* (-.*? )\*/', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1
    # Scan for license statements.
    in_comment = False
    code_seen = False
    nonlicense_seen = False

    # DB2 licenses start with '/*-' and we don't want
to change them.
    if line !=''' and line != '-
        text_seen = True
    return is_license
for line in lines[ln:]:
    # Strip out whitespace and comments contained within a line.
    if not in_comment:
        line = re.sub(r'\*.*?\*/', '', line)
        line = line.strip()
    if not in_comment and '/*' in line:
        (line, sep, comment_part) = line.partition('/*')
        comment = [comment_part.strip()]
        comment_starts_at = ln
        in_comment = True
    elif in_comment and '*/' not in line:
        comment.append(line.lstrip('*').lstrip())
    elif in_comment:
        (comment_part, sep, line) = line.partition('*/')
        comment.append(comment_part.strip())
    is_license = check_comment(comment, fname, comment_starts_at,
                               code_seen, nonlicense_seen)
    nonlicense_seen = nonlicense_seen or not is_license
    in_comment = False
    elif line.strip() != '':
        code_seen = True
        ln += 1

for fname in sys.argv[1:]:
    if fname.startswith('./'):
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)

1.95 kube-dns 1.14.5
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// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}
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type License struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}
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Protocol Buffers for Go with Gadgets

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Go support for Protocol Buffers - Google's data interchange format

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// For more information: http://goo.gl/8us55a#licenseObject

type License struct {

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Name string `json:"name,omitempty"`
URL string `json:"url,omitempty"`
}
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file_io/unix/mktemp.c, strings/apr_strings.c:
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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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1.102 libapr1-dev 1.5.2-5

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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The following was recevied February 23,2000 From: "Linn, John" February 19,
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src/assuan-socket.c
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src/system-posix.c
src/system-w32.c
src/system-w32ce.c
src/system.c
src/w32-fd-t.inc.h
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Whether this is true is especially significant if the work can be
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
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with the Library, with the complete machine-readable “work that
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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is
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include/bsd/sys/queue.h
include/bsd/timeconv.h
include/bsd/vis.h
man/bitstring.3
man/explicit_bzero.3
man/fgetln.3
man/fgetwln.3
man/funopen.3bsd
man/getbsize.3
man/heapsort.3
man/nlist.3
man/queue.3bsd
man/radixsort.3
man/reallocarray.3
man/reallocf.3
man/setmode.3
man/strmode.3
man/strnstr.3
man/unvis.3
man/vis.3
man/wcslepy.3
src/getbsize.c
src/heapsort.c
src/merge.c
src/nlist.c
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man/strtonum.3
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src/arc4random_openbsd.h
src/arc4random_uniform.c
src/arc4random_unix.h
src/closefrom.c
src/getentropy_aix.c
src/getentropy_bsd.c
src/getentropy_hpux.c
src/getentropy_hurd.c
src/getentropy_linux.c
src/getentropy_osx.c
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include/bsd/vis.h
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man/explicit_bzero.3
man/fgetln.3
man/fgetwln.3
man/funopen.3bsd
man/getbsize.3
man/heapsort.3
man/nlist.3
man/queue.3bsd
man/radixsort.3
man/reallocarray.3
man/reallocf.3
man/setmode.3
man/strmode.3
man/strnstr.3
man/unvis.3
man/vis.3
man/wcslepy.3
src/getbsize.c
src/heapsort.c
src/merge.c
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man/closefrom.3
man/flopen.3
man/getpeereid.3
man/pidfile.3
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man/readpassphrase.3
man/strlcpy.3
man/strtonum.3
src/arc4random.c
src/arc4random_openbsd.h
src/arc4random_uniform.c
src/arc4random_unix.h
src/closefrom.c
src/getentropy_aix.c
src/getentropy_bsd.c
src/getentropy_hpux.c
src/getentropy_hurd.c
src/getentropy_linux.c
src/getentropy_osx.c
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src/strlcat.c
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1.117 libbz2-1.0 amd64:1.0.6-8.1

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

1.118 libc-bin 2.24-11+deb9u3

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
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directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it
becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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Theodore Ts'o
23-June-2007

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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
- 
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#
# This is a Makefile stub which handles the creation of BSD shared libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image
real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)

$(BSD_LIB): $(OBS)$
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBS)$)
$(MV) pic/$(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \ `echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$((INSTALL_PROGRAM) $(BSD_LIB) \ $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$($(LDCONFIG))

install-strip: install
install-shlibs-strip: install-shlibs

uninstall-shlibs-uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

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Gadi Oxman, August 1995

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Version 2, June 1991

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This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

It is part of the main e2fsprogs distribution, which can be found at:
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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This package was put together by Yann Dirson <dirson@debian.org>,
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<P>
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<P>
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</OL>

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uses the Library", as object code and/or source code, so that the
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<P>
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</OL>

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<OL TYPE="a">

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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Appendix: How to Apply These Terms to Your New Libraries

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Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.127 libcurl3-gnutls:amd64 7.52.1-5+deb9u6
1.127.1 Available under license :

License Mixing

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and
the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that [GPL](https://www.gnu.org/licenses/gpl.html) licensed code is not allowed to be linked with code licensed under the [Original BSD license](https://spdx.org/licenses/BSD-4-Clause.html) (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an [exception](https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs). This particular problem was addressed when the [Modified BSD license](https://opensource.org/licenses/BSD-3-Clause) was created, which does not have the announcement clause that collides with GPL.

## libcurl

Uses an [MIT style license](https://curl.haxx.se/docs/copyright.html) that is very liberal.

## OpenSSL

(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it "incompatible" with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL's licensing is a problem for you, consider using another TLS library.

## GnuTLS

(May be used for SSL/TLS support) Uses the [LGPL](https://www.gnu.org/licenses/lgpl.html) license. If this is a problem for you, consider using another TLS library. Also note that GnuTLS itself depends on and uses other libs (libgcrypt and libgpg-error) and they too are LGPL- or GPL-licensed.

## WolfSSL

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## axTLS

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## mbedTLS

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## BoringSSL

(May be used for SSL/TLS support) As an OpenSSL fork, it has the same license as that.

## libressl

(May be used for SSL/TLS support) As an OpenSSL fork, it has the same license as that.

## c-ares

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

## zlib

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

## MIT Kerberos

(May be used for GSS support) MIT licensed, that shouldn't collide with any other parts.

## Heimdal

(May be used for GSS support) Heimdal is Original BSD licensed with the announcement clause.

## GNU GSS
(May be used for GSS support) GNU GSS is GPL licensed. Note that you may not
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and use any Original BSD licensed libraries!

## libidn

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## OpenLDAP

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses
OpenLDAP as a shared library only, I have not heard of anyone that ships
OpenLDAP linked with libcurl in an app.

## libssh2

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

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1.128 libcurl3:amd64 7.52.1-5+deb9u6

1.128.1 Available under license:

License Mixing
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libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

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## zlib

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(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

## libssh2

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src/gzip/inftrees.c
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src/gzip/infutil.c
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src/gzip/zlib.h
src/gzip/zutil.c
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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in
The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlevs(detlevs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@ groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn’t
made it into the released version of the collector, yet.)
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# so that they have the form:
#
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#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
#   update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
#   update-copyright.pl --this-year libjava
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            string = filename + ': ' + string
        sys.stderr.write(string + '\n')
        self.num_errors += 1

    def ok(self):
        return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set(['
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
        ])
'config.sub',
'depcomp',
'install-sh',
'libtool.m4',
'ltmain.sh',
'lt~obsolete.m4',
'ltversion.m4',
'missing',
'mkdep',
'mkinstalldirs',
'move-if-change',
'shlibpath.m4',
'symlink-tree',
'ylwrap',

# Skip FSF mission statement, etc.
'gnu.texi',
'funding.texi',
'appendix_free.xml',

# Skip imported texinfo files.
'texinfo.tex',
}

def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile (r'	')
    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True
    # Skip files produced by autogen
if (os.path.exists (base + '.def')
    and os.path.exists (base + '.tpl')):
    return True

# Skip configure files produced by autoconf
if filename == 'configure':
    if os.path.exists (base + '.ac'):
        return True
    if os.path.exists (base + '.in'):
        return True

return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9-]?[-0-9,.\s]\s+and\s+[0-9-]'

        # Non-whitespace characters in a copyright holder's name.
        name = '\w-.\]'

        # Matches one year.
        self.year_re = re.compile ('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + '|' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile ('[Cc]\s+\(C\s+\(C\s+\|[Cc][Cc]\s+\(C\s+\|')
# 2: the years. Include the whitespace in the year, so that
# we can remove any excess.
'(^\s*\(?;!: ranges + \?,?\n' '@value(\{[^\}]*)\}\}\}\}'

# 3: 'by ', if used
'(by\;s+)?'

# 4: the copyright holder. Don't allow multiple consecutive
# spaces, so that right-margin gloss doesn't get caught
# (e.g. gnat_ugn.texi).
'(\ + name + (?:\s'+ name + *)*)?'

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile ('copyright.*[0-9][0-9]',
    re.IGNORECASE)

self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be .'
self.separator = ''

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
index = holder.find (' ')
while index >= 0:
    self.holder_prefixes.add (holder[:index])
    index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None
class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
        elif len (string) == 4:
            return year
        raise self.BadYear (string)

def year_range (self, years):
    year_list = [self.parse_year (year)
                 for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value'):
        return years

    (min_year, max_year) = self.year_range (years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
        max_year = max (max_year, self.max_year)

    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation (self, line):
line = line.lstrip()
match = self.comment_re.match (line)
if match:
    line = line[match.end():].lstrip()
return line

def is_complete (self, match):
    holder = match.group (4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join (dir, filename)

    intro = match.group (1)
    if intro.startswith ('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end (2):].strip()
        if after_years != ':
            self.errors.report (pathname,
                                'trailing characters in @set: ''
                                + after_years)
            return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete (match):
            try:
                next_line = file.next()
            except StopIteration:
                break

            # If the next line doesn't look like a proper continuation,
            # assume that what we've got is complete.
            continuation = self.strip_continuation (next_line)
            if not self.continuation_re.match (continuation):
                break

            # Merge the lines for matching purposes.
            orig_line += next_line
            line = line.rstrip() + ' ' + continuation
            next_line = None

    # Rematch with the longer line, at the original position.
    match = self.copyright_re.match (line, match.start())
    assert match
holder = match.group (4)

# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author (dir, filename):
    assert holder not in self.holders

elif not holder:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report (pathname,
                        'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
            + canon_form
            + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
        return (False, orig_line, next_line)

    line = (line[:match.start (2)]
            + ('' if intro.startswith ('copyright = ') else ' ')
            + canon_form + self.separator
            + line[match.end (2):])

    # Use the standard (C) form.
    if intro.endswith ('right'):
        intro += ' (C)'
    elif intro.endswith ('(c)'):
intro = intro[:-3] + '(C)'
line = line[:match.start (1)] + intro + line[match.end (1):]

# Strip trailing whitespace
line = line.rstrip() + '\n'

return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
        return
    lines = []
    changed = False
    line_filter = filter.get_line_filter (dir, filename)
    with open (pathname, 'r') as file:
        prev = None
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match (line)):
                    match = self.copyright_re.search (line)
                    if match:
                        res = self.update_copyright (dir, filename, filter,
                                                     file, line, match)
                        (this_changed, line, next_line) = res
                        changed = changed or this_changed
                    # Check for copyright lines that might have slipped by.
                elif self.other_copyright_re.search (line):
                    self.errors.report (pathname,
                                        'unrecognised copyright: %s'
                                        % line.strip())
                    lines.append (line)
                    line = next_line

                    # If something changed, write the new file out.
                if changed and self.errors.ok():
                    tmp_pathname = pathname + '.tmp'
                    with open (tmp_pathname, 'w') as file:
                        for line in lines:
```python
file.write(line)
if self.use_quilt:
    subprocess.call(['quilt', 'add', pathname])
os.rename(tmp_pathname, pathname)

def process_tree(self, tree, filter):
    for (dir, subdirs, filenames) in os.walk(tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange(len(subdirs) - 1, -1, -1):
            if filter.skip_dir(dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file(dir, filename):
                sys.stdout.write('Skipping %s
' % os.path.join(dir, filename))
            else:
                self.process_file(dir, filename, filter)

class CmdLine:
    def __init__(self, copyright=Copyright):
        self.errors = Errors()
        self.copyright = copyright(self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option('--help', 'Print this help', self.o_help)
        self.add_option('--quilt', 'quilt add files before changing them',
                        self.o_quilt)
        self.add_option('--this-year', 'Add the current year to every notice',
                        self.o_this_year)

    def add_option(self, name, help, handler):
        self.option_help.append((name, help))
        self.option_handlers[name] = handler

    def add_dir(self, dir, filter=GenericFilter()):
        self.dirs.append(((dir, filter))

    def o_help(self, option=None):
        sys.stdout.write('Usage: %s [options] dir1 dir2...
' % sys.argv[0])
        format = '%-15s %s
'
        for (what, help) in self.option_help:
sys.stdout.write (format % (what, help))
sys.stdout.write ('\n')

format = '%-25s'
i = 0
for (dir, filter) in self.dirs:
    i += 1
    if i % 3 == 0 or i == len (self.dirs):
        sys.stdout.write (dir + 'n')
    else:
        sys.stdout.write (format % dir)
sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[:1] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
if self.errors.ok():
    if len (self.chosen_dirs) == 0:
        self.chosen_dirs = self.default_dirs
    if len (self.chosen_dirs) == 0:
        self.o_help()
    else:
        for chosen_dir in self.chosen_dirs:
            canon_dir = os.path.join (chosen_dir, '')
            count = 0
            for (dir, filter) in self.dirs:
                if (dir + os.sep).startswith (canon_dir):
                    count += 1
                    self.copyright.process_tree (dir, filter)
            if count == 0:
                self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
            sys.exit (0 if self.errors.ok() else 1)

#--------------------------------------------------------------------------------

class TopLevelFilter (GenericFilter):
def skip_dir(self, dir, subdir):
    return True

class ConfigFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

    def skip_file(self, dir, filename):
        if filename.endswith('.m4'):
            pathname = os.path.join(dir, filename)
            with open(pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file(self, dir, filename)

class GCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_files |= set(['
            # Not part of GCC
            'math-68881.h',
        ])

        self.skip_dirs |= set(['
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
        ])

        self.skip_extensions |= set(['
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

        self.fossilised_files |= set(['
            # Old news won't be updated.
            'ONEWS',
        ])

class TestsuiteFilter(GenericFilter):
    def __init__(self):
GenericFilter.__init__(self)

self.skip_extensions |= set(['
    # Don't change the tests, which could be woend by anyone.
    '.c',
    '.C',
    '.cc',
    '.h',
    '.hs',
    '.f',
    '.f90',
    '.go',
    '.inc',
    '.java',
    ])

def skip_file(self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename(dir) == 'g++.niklas':
        return True
    return GenericFilter.skip_file(self, dir, filename)

class LibCppFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set(['
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
            ])

class LibGCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set(['
            # Imported from GLIBC.
            'soft-fp',
            ])

class LibJavaFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)
self.skip_dirs |= set (  
    # Handled separately.  
    'testsuite',  

    # Not really part of the library  
    'contrib',  

    # Imported from upstream  
    'classpath',  
    'libltdl',  
)  

def get_line_filter (self, dir, filename):  
    if filename == 'NameDecoder.h':  
        return re.compile ('.*NAME_COPYRIGHT')  
    if filename == 'ICC_Profile.h':  
        return re.compile ('.*icSigCopyrightTag')  
    return GenericFilter.get_line_filter (self, dir, filename)  

class LibMudflapFilter (GenericFilter):  
    def __init__ (self):  
        GenericFilter.__init__ (self)  

        self.skip_dirs |= set (  
            # Handled separately.  
            'testsuite',  
        )  

class LibStdCxxFilter (GenericFilter):  
    def __init__ (self):  
        GenericFilter.__init__ (self)  

        self.skip_dirs |= set (  
            # Contains no copyright of its own, but quotes the GPL.  
            'intro.xml',  
        )  

        self.skip_files |= set (  
            # Contains automatically-generated sources.  
            'html',  

            # The testsuite data files shouldn't be changed.  
            'data',  

            # Contains imported images  
            'images',  
        )
self.own_files |= set([
    # Contains markup around the copyright owner.
    'spine.xml',
    ])

def get_line_filter(self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile (r'// \(C\) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter(self, dir, filename)

class GCCCopyright(Copyright):
    def __init__(self, errors):
        Copyright.__init__(self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author('Free Software Foundation', canon_fsf)
        self.add_package_author('Free Software Foundation.', canon_fsf)
        self.add_package_author('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author('The Free Software Foundation', canon_fsf)
        self.add_package_author('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author('Software Foundation, Inc.', canon_fsf)

        self.add_external_author('ARM')
        self.add_external_author('AdaCore')
        self.add_external_author('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author('Cavium Networks.')
        self.add_external_author('Faraday Technology Corp.')
        self.add_external_author('Florida State University')
        self.add_external_author('Greg Colvin and Beman Dawes.')
        self.add_external_author('Hewlett-Packard Company')
        self.add_external_author('Information Technology Industry Council.')
        self.add_external_author('James Theiler, Brian Gough')
        self.add_external_author('Makoto Matsumoto and Takuji Nishimura,')
        self.add_external_author('National Research Council of Canada.')
        self.add_external_author('NVIDIA Corporation')
        self.add_external_author('Peter Dimov and Multi Media Ltd.')
        self.add_external_author('Peter Dimov')
        self.add_external_author('Pipeline Associates, Inc.')
        self.add_external_author('Regents of the University of California.')
        self.add_external_author('Silicon Graphics Computer Systems, Inc.')
        self.add_external_author('Silicon Graphics')
        self.add_external_author('Stephen L. Moshier')
        self.add_external_author('Sun Microsystems, Inc. All rights reserved.')
        self.add_external_author('The Go Authors. All rights reserved.')
        self.add_external_author('The Go Authors.')
class GCCCmdLine (CmdLine):
    def __init__(self):
        CmdLine.__init__(self, GCCCopyright)

        self.add_dir('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir('fixincludes')
        self.add_dir('gcc', GCCFilter())
        self.add_dir(os.path.join('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir('gnattools')
        self.add_dir('include')
        self.add_dir('libada')
        self.add_dir('libatomic')
        self.add_dir('libbacktrace')
        self.add_dir('libcpp', LibCppFilter())
        self.add_dir('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir('libgcc', LibGCCFilter())
        self.add_dir('libgfortran')
        self.add_dir('libgomp')
        self.add_dir('libiberty')
        self.add_dir('libitm')
        self.add_dir('libjava', LibJavaFilter())
        self.add_dir(os.path.join('libjava', 'testsuite'), TestsuiteFilter())
        self.add_dir('libmudflap', LibMudflapFilter())
        self.add_dir(os.path.join('libmudflap', 'testsuite'), TestsuiteFilter())
        self.add_dir('libobjc')
        self.add_dir('libquadmath')
        # libsanitiser is imported from upstream.
        self.add_dir('libssp')
        self.add_dir('libstdc++-v3', LibStdCxxFilter())
        self.add_dir('libvtv')
        self.add_dir('lto-plugin')
        # zlib is imported from upstream.

        self.default_dirs = ['gcc',
                             'libada',
                             'libatomic',
                             'libbacktrace',
                             'libcpp',
                             'libdecnumber']
GCCCmdLine().main()

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.
In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

1. Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

2. Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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      (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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#pragma interface

#include <java/lang/Enum.h>
#include <gcj/array.h>

extern "Java"
{
namespace gnu
{
namespace javax
{
namespace sound
{
   class AudioSecurityManager$Permission;
}
}
}
}

class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
{
   AudioSecurityManager$Permission(::java::lang::String *, jint);
   public:
   static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
   static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
   static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
   static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
   static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;
   private:
   static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUM$VALUES;
   public:
   static ::java::lang::Class class$;
};

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2000-05-05

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*m4/ax_func_which_gethostbyname_r.m4*

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	()V
	<init>(Ljava/lang/String;I)V
	LineNumberTableLocalVariableTable
thisvalues4[Lgnu/java/sound/AudioSecurityManager$Permission;
$&%java/lang/System';
arraycopy*(Ljava/lang/Object;ILjava/lang/Object;II)V
valueOfE(Ljava/lang/String;)Lgnu/java/sound/AudioSecurityManager$Permission;
);-5(Ljava/lang/Class;Ljava/lang/String;)Ljava/lang/Enum;
SourceFileAudioSecurityManager.java
SignatureCLjava/lang/Enum<Lgnu/java/sound/AudioSecurityManager$Permission;>;InnerClasses4$gnu/java/sound/AudioSecurityManager
Permission@1@@@

eAYYYYYSYSYS
G'E
1**E !"'
6YK*Y<YM#,*)*
*
*+/.012
35@
1java/security/acl/Permissionjava/lang/Objectequals(Ljava/lang/Object;)ZtoString()Ljava/lang/String;
SourceFilePermission.java
1[Ljava/security/Permissionjava/lang/Objectjava/security/Guardjava/io/SerializableserialVersionUIDJ
ConstantValue?(WQ~nameLjava/lang/String;<init>(Ljava/lang/String;)V
Code();
	LineNumberTableLocalVariableTable
thisLjava/security/Permission;
checkGuard(Ljava/lang/Object;)V
! java/lang/System"#getSecurityManager()Ljava/lang/SecurityManager;
%&java/lang/SecurityManager()checkPermission(Ljava/security/Permission;)VobjLjava/lang/Object;smLjava/lang/
SecurityManager;implies(Ljava/security/Permission;)Zequals(Ljava/lang/Object;)ZhashCode()JgetName()Ljava/lang/String;
getActionsnewPermissionCollection&()Ljava/security/PermissionCollection;toString;gnu/java/lang/CPStringBuilder
r
:>:?:@append"(C)Lgnu/java/lang/CPStringBuilder;
BCDgetClass()Ljava/lang/Class;
FHGjava/lang/Class45
:J?K3(Ljava/lang/String;)Lgnu/java/lang/CPStringBuilder;
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package gnu.classpath.tools.taglets;
import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:";

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

    public boolean inOverview() {
        return true;
    }

    public boolean inPackage() {
        return true;
    }

    public boolean inType() {
        return true;
    }

    public boolean isInlineTag() {
        return false;
    }

    public static void register(Map tagletMap) {
        CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
    }
}
tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}

public String toString(Tag tag) {
    return toString(new Tag[] { tag });
}

public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    } else {
        boolean haveValidTag = false;
        for (int i = 0; i < tags.length && !haveValidTag; ++i) {
            if (tags[i].text().length() > 0) {
                haveValidTag = true;
            }
        }
        if (haveValidTag) {
            StringBuffer result = new StringBuffer();
            result.append("<dl>");
            for (int i = 0; i < tags.length; i++) {
                if (tags[i].text().length() > 0) {
                    result.append("<dt><i>Copyright © " + tags[i].text() + "</i></dt>");
                }
            }
            result.append("</dl>");
            return result.toString();
        } else {
            return null;
        }
    }
}

If+gnu/classpath/tools/taglets/CopyrightTagletjava/lang/Objectcom/sun/tools/doclets/TagletNAMEjava/lang/String;
ConstantValuecopyrightHEADER
Copyright:<init>()VCode
LineNumberTableLocalVariableTablethis-
Lgnu/classpath/tools/taglets/CopyrightTaglet;getName()Ljava/lang/String;inField()Z
inConstructorinMethod
inOverviewinPackageinTypeisinLineTagregister(Ljava/util/Map;)V
&(*)
java/util/Map+.put8(Ljava/lang/Object;Ljava/lang/Object;)Ljava/lang/Object;
tagletMapLjava/util/Map;copyrightTaglettoString)(Lcom/sun/javadoc/Tag;)Ljava/lang/String;3com/sun/javadoc/TagMap
/* Permission.java -- The superclass for all permission objects

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 * *
 * <p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 * *
 * <p><code>Permission</code>'s must be immutable - do not change their
 * state after creation.
 * *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 * @see Permissions
 * @see PermissionCollection
 * @since 1.1
 * @status updated to 1.4
 */

public abstract class Permission implements Guard, Serializable {

/**
 * Compatible with JDK 1.1+. 
 */

private static final long serialVersionUID = -5636570222231596674L;
/**
 * This is the name assigned to this permission object.
 *
 * @serial the name of the permission
 */
private String name;

/**
 * Create an instance with the specified name.
 *
 * @param name the permission name
 */
public Permission(String name)
{
    this.name = name;
}

/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in
 * <code>SecurityManager</code> with this <code>Permission</code> as its
 * argument. This method returns silently if the security check succeeds
 * or throws an exception if it fails.
 *
 * @param obj the <code>Object</code> being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 * @see GuardedObject
 * @see SecurityManager#checkPermission(Permission)
 */
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 *
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather
 * than <code>equals</code>, when making access control decisions.
 */
public abstract boolean equals(Object obj);  

/**  
 * This method returns a hash code for this <code>Permission</code>. It  
 * must satisfy the contract of <code>Object.hashCode</code>: it must be  
 * the same for all objects that equals considers to be the same.  
 *  
 * @return a hash value  
 */  
public abstract int hashCode();  

/**  
 * Get the name of this <code>Permission</code>.  
 *  
 * @return the name  
 */  
public final String getName()  
{  
    return name;  
}  

/**  
 * This method returns the list of actions for this <code>Permission</code>  
 * as a <code>String</code>. The string should be in canonical order, for  
 * example, both <code>new FilePermission(f, "write,read")</code> and  
 * <code>new FilePermission(f, "read,write")</code> have the action list  
 * "read,write".  
 *  
 * @return the action list for this <code>Permission</code>  
 */  
public abstract String getActions();  

/**  
 * This method returns an empty <code>PermissionCollection</code> object  
 * that can store permissions of this type, or <code>null</code> if no  
 * such collection is defined. Subclasses must override this to provide  
 * an appropriate collection when one is needed to accurately calculate  
 * <code>implies</code>.  
 *  
 * @return a new <code>PermissionCollection</code>  
 */  
public PermissionCollection newPermissionCollection()  
{  
    return null;  
}
/**
 * This method returns a <code>String</code> representation of this <code>Permission</code> object. This is in the format:
 * <code>(getClassName() + ' ' + getName() + ' ' + getActions + ')</code>
 * @return this object as a <code>String</code>
 */
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());
    if (!(getActions().equals("")))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }

    string = string.append(')');
    return string.toString();
}
} // class Permission

/* Permission.java -- Information about an ACL permission
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package java.security.acl;

/**
 * This interface provides information about a permission that can be granted. Note that this is <em>not</em> the same as the class <code>java.security.Permission</code>.
 * @version 0.0
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
public interface Permission
{
/**
 * This method tests whether or not a specified <code>Permission</code> (passed as an <code>Object</code>) is the same as this permission.
 * @param perm The permission to check for equality
 * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
 */
boolean equals (Object perm);

/**
 * This method returns this <code>Permission</code> as a <code>String</code>.
 * @return A <code>String</code> representing this permission.
 */
String toString();
}
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// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __java_security_Permission__
define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
 namespace java
 {
 namespace security
 {
  class Permission;
  class PermissionCollection;
 }
}
class java::security::Permission : public ::java::lang::Object
{

public:
  Permission(::java::lang::String *);
  virtual void checkGuard(::java::lang::Object *);
  virtual jboolean implies(::java::security::Permission *) = 0;
  virtual jboolean equals(::java::lang::Object *) = 0;
  virtual jint hashCode() = 0;
  virtual ::java::lang::String * getName();
  virtual ::java::lang::String * getActions() = 0;
  virtual ::java::security::PermissionCollection * newPermissionCollection();
  virtual ::java::lang::String * toString();

private:
  static const jlong serialVersionUID = -5636570222231596674LL;
  ::java::lang::String * __attribute__((aligned(__alignof__(::java::lang::Object)))) name;

public:
  static ::java::lang::Class class$;
};

#endif // __java_security_Permission__

// DO NOT EDIT THIS FILE - it is machine generated -*.c++ -*

#ifndef __java_security_acl_Permission__
#define __java_security_acl_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
  namespace java
  {
    namespace security
    {
      namespace acl
      {
        class Permission;
      }
    }
  }
}

class java::security::acl::Permission : public ::java::lang::Object
public:
  virtual jboolean equals(::java::lang::Object *) = 0;
  virtual ::java::lang::String * toString() = 0;
  static ::java::lang::Class class$;
} __attribute__ ((java_interface));

#endif // __java_security_acl_Permission__

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<td>lib/interception/mach_override</td>
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underscores, we are using prefix `.\'s to identify labels that should
be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
 #define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE) \
fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) \
( fputs (".comm ", (FILE)),\n assemble_name ((FILE), (NAME)),\n fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) \
( fputs (".lcomm ", (FILE)),\n assemble_name ((FILE), (NAME)),\n fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) \
( fputs (".lcomm ", (FILE)),\n assemble_name ((FILE), (NAME)),\n fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif
/* This is how to output an assembler line
that says to advance the location counter
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)\  	if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
the symbol_ref name of an internal numbered label where
PREFIX is the class of label and NUM is the number within the class.
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)\  
sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

" Automatically generated by Pod::Man 4.09 (Pod::Simple 3.35)
" Standard preamble:
" ========================================================================
.de Sp " Vertical space (when we can't use .PP)
.if t .sp .5v
.if n .sp
..
.de Vb " Begin verbatim text
.ft CW
.nf
.ne \$1
..
.de Ve " End verbatim text
.ft R
.fi
..
" Set up some character translations and predefined strings. \(-- will
" give an unbreakable dash, \(PI will give pi, \(L" will give a left
" double quote, and \(R" will give a right double quote. \(C+ will
" give a nicer C++. Capital omega is used to do unbreakable dashes and
" therefore won't be available. \(C- and \(C' expand to `\' in nroff,
" nothing in troff, for use with C<>.

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11612
Escape single quotes in literal strings from groff's Unicode transform.

If the F register is >0, we'll generate index entries on stderr for titles (.TH), headers (.SH), subsections (.SS), items (.Ip), and index entries marked with X<> in POD. Of course, you'll have to process the output yourself in some meaningful fashion.

Avoid warning from groff about undefined register 'F'.

del IX

.. if $nF .nr F 0
.. if $nF>0 \|
   de IX
   tm Index:\$1\t\n%\t"\$2"

.. if $nF==2 \|
   nr % 0
   nr F 2
   \|
\}

Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).
```
IX Title "GPL 7"
.TH GPL 7 "2016-12-21" "gcc-6.3.0" "GNU"

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IX Item "0. Definitions."

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@end enumerate

@end example

@end section

@end section

@end section

@end section

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the `copyright' line and a pointer to where the full notice is found.

@example
@var{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{year} @var{name of author}

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You should have received a copy of the GNU General Public License along with this program. If not, see @url{http://www.gnu.org/licenses/}.
@end example

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

@example
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}. This is free software, and you are welcome to redistribute it
@end example
The hypothetical commands `@samp{show w}` and `@samp{show c}` should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an ``about box''.

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazil@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson (jep@miiname.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martinhauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Jansen (jansen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.)

#!/usr/bin/python
#
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#
# This script is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)
# any later version.
#
# This script adjusts the copyright notices at the top of source files
# so that they have the form:
##
# Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
# update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
# update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            string = filename + ': ' + string
        sys.stderr.write(string + '
')
        self.num_errors += 1

    def ok(self):
        return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set(['
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'depcomp',
            ''])
def get_line_filter(self, dir, filename):
    if filename.startswith('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile(r'^\n')
    return None

def skip_file(self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext(os.path.join(dir, filename))
    if extension in self.skip_extensions:
        return True

    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists(base + '.am'):
            return True

    # Skip files produced by autogen
    if (os.path.exists(base + '.def')
        and os.path.exists(base + '.tpl')):
        # Skip FSF mission statement, etc.
        'gnu.texi',
        'funding.texi',
        'appendix_free.xml',
    )

    # Skip imported texinfo files.
    'texinfo.tex',
)

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        # Skip FSF mission statement, etc.
        'gnu.texi',
        'funding.texi',
        'appendix_free.xml',
    )

    # Skip imported texinfo files.
    'texinfo.tex',
)
return True

# Skip configure files produced by autoconf
if filename == 'configure':
    if os.path.exists (base + '.ac'):
        return True
    if os.path.exists (base + '.in'):
        return True

return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9][\-0-9,.\s]+and\s+[0-9]'

        # Non-whitespace characters in a copyright holder's name.
        name = '[\w.,-]'

        # Matches one year.
        self.year_re = re.compile ('[0-9]+' + name)

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + '|\s+\|\s+\s+' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile (ranges + 'Copyright (C)' + name + ranges + 'Copyright', re.IGNORECASE)

        # 1: 'Copyright (C)', etc.
        self.copyright_C_re = re.compile ('\[(C)?\] copyright\s+\(\[(C)\]\)' + ranges + 'Copyright', re.IGNORECASE)

        # 2: 'Copyright (C)' + ranges + 'Copyright'
        self.copyright_D_re = re.compile ('\[(C)?\] copyright\s+\(\[(C)\]\)' + ranges + 'Copyright\s+', re.IGNORECASE)

        # 3: 'Copyright (C)' + ranges + 'Copyright'
        self.copyright_E_re = re.compile ('\[(C)?\] copyright\s+\(\[(C)\]\)' + ranges + 'Copyright\s+', re.IGNORECASE)
# 2: the years. Include the whitespace in the year, so that
# we can remove any excess.
'\(\s*\(?:\^\+\)? + ranges + \.\)'
'[@value\{[^{}]*\})s*]'

# 3: 'by ', if used
'(by\s+)?'

# 4: the copyright holder. Don't allow multiple consecutive
# spaces, so that right-margin gloss doesn't get caught
# (e.g. gnat_ugn.texi).
'\(\s*\(?:\^\+\)? + name + \ (?:\^\+\)? + name + \)\)?')

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile('copyright.*[0-9][0-9]',
re.IGNORECASE)
self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ',', '.
self.separator = ','

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (',')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (',', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
def __init__(self, year):
    self.year = year

def __str__(self):
    return 'unrecognised year: ' + self.year

def parse_year(self, string):
    year = int(string)
    if len(string) == 2:
        if year > 70:
            return year + 1900
    elif len(string) == 4:
        return year
    raise self.BadYear(string)

def year_range(self, years):
    year_list = [self.parse_year(year)
                 for year in self.year_re.findall(years)]
    assert len(year_list) > 0
    return (min(year_list), max(year_list))

def set_use_quilt(self, use_quilt):
    self.use_quilt = use_quilt

def include_year(self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years(self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith('@value'):
        return years
    (min_year, max_year) = self.year_range(years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file(dir, filename):
        max_year = max(max_year, self.max_year)

    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
if match:
    line = line[match.end():].lstrip()
return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder
    and (holder not in self.holder_prefixes
            or holder in self.holders))

def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join(dir, filename)

    intro = match.group(1)
    if intro.startswith('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end(2):].strip()
        if after_years != '':
            self.errors.report(pathname,
                                'trailing characters in @set: ' + after_years)
            return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete(match):
            try:
                next_line = file.next()
            except StopIteration:
                break
            # If the next line doesn't look like a proper continuation,
            # assume that what we've got is complete.
            continuation = self.strip_continuation(next_line)
            if not self.continuation_re.match(continuation):
                break

            # Merge the lines for matching purposes.
            orig_line += next_line
            line = line.rstrip() + ' ' + continuation
            next_line = None

        # Rematch with the longer line, at the original position.
        match = self.copyright_re.match(line, match.start())
        assert match

        holder = match.group(4)
# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author (dir, filename):
    assert holder not in self.holders

elif not holder:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report (pathname,
                        'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
            + canon_form
            + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
        return (False, orig_line, next_line)

    line = (line[:match.start (2)]
            + ('' if intro.startswith ('copyright = ') else ' ')
            + canon_form + self.separator
            + line[match.end (2):])

    # Use the standard (C) form.
    if intro.endswith ('right'):
        intro += ' (C)'
    elif intro.endswith ('(c)'):
        intro = intro[:-3] + '(C)'
    line = line[:match.start (1)] + intro + line[match.end (1):]
# Strip trailing whitespace
line = line.rstrip() + '\n'
return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
        return

    lines = []
    changed = False
    line_filter = filter.get_line_filter (dir, filename)
    with open (pathname, 'r') as file:
        prev = None
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match (line)):
                    match = self.copyright_re.search (line)
                    if match:
                        res = self.update_copyright (dir, filename, filter,
                                         file, line, match)
                        (this_changed, line, next_line) = res
                        changed = changed or this_changed

                    # Check for copyright lines that might have slipped by.
                    elif self.other_copyright_re.search (line):
                        self.errors.report (pathname,
                                         'unrecognised copyright: %s'
                                         % line.strip())
                        lines.append (line)
                        line = next_line

                # If something changed, write the new file out.
                if changed and self.errors.ok():
                    tmp_pathname = pathname + '.tmp'
                    with open (tmp_pathname, 'w') as file:
                        for line in lines:
                            file.write (line)
                    if self.use_quilt:
subprocess.call (['quilt', 'add', pathname])

os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange (len (subdirs) - 1, -1, -1):
            if filter.skip_dir (dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file (dir, filename):
                sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
            else:
                self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', '"quilt add" files before changing them',
            self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice',
            self.o_this_year)

def add_option (self, name, help, handler):
    self.option_help.append ((name, help))
    self.option_handlers[name] = handler

def add_dir (self, dir, filter = GenericFilter()):
    self.dirs.append ((dir, filter))

def o_help (self, option = None):
    sys.stdout.write ('Usage: %s [options] dir1 dir2...
' % sys.argv[0])
    format = '%-15s %s
' % sys.argv[0])
    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))

    sys.stdout.write ('
Directories:
')
format = '%-25s'
i = 0
for (dir, filter) in self.dirs:
    i += 1
    if i % 3 == 0 or i == len (self.dirs):
        sys.stdout.write (dir + 'n')
    else:
        sys.stdout.write (format % dir)
sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[1:] != ':
            self.chosen_dirs.append (arg)
elif arg in self.option_handlers:
    self.option_handlers[arg] (arg)
else:
    self.errors.report (None, 'unrecognised option: ' + arg)
if self.errors.ok():
    if len (self.chosen_dirs) == 0:
        self.chosen_dirs = self.default_dirs
    if len (self.chosen_dirs) == 0:
        self.o_help()
    else:
        for chosen_dir in self.chosen_dirs:
            canon_dir = os.path.join (chosen_dir, '')
count = 0
for (dir, filter) in self.dirs:
    if (dir + os.sep).startswith (canon_dir):
        count += 1
    self.copyright.process_tree (dir, filter)
if count == 0:
    self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
sys.exit (0 if self.errors.ok() else 1)

#--------------------------------------------------------------------------------

class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

 class TopLevelFilter (GenericFilter):
   def skip_dir (self, dir, subdir):
     return True
class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set (
            # Not part of GCC
            'math-68881.h',
        )

        self.skip_dirs |= set (
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
        )

        self.skip_extensions |= set (
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        )

        self.fossilised_files |= set (
            # Old news won't be updated.
            'ONEWS',
        )

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
self.skip_extensions |= set([
    # Don't change the tests, which could be woend by anyone.
    '.c',
    '.C',
    '.cc',
    '.h',
    '.hs',
    '.f',
    '.f90',
    '.go',
    '.inc',
    '.java',
])

def skip_file(self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename(dir) == 'g++.niklas':
        return True
    return GenericFilter.skip_file(self, dir, filename)

class LibCppFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

class LibGCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibJavaFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Handled separately.
def get_line_filter(self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter(self, dir, filename)

class LibMudflapFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)
        self.skip_dirs |= set(['testsuite',  # Handled separately.
                                'classpath',
                                'libltdl',
                                ])

class LibStdCxxFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)
        self.skip_files |= set(['intro.xml',  # Contains no copyright of its own, but quotes the GPL.
                                  ])
        self.skip_dirs |= set(['html',  # Contains automatically-generated sources.
                                'data',  # The testsuite data files shouldn't be changed.
                                'images',  # Contains imported images
                                ])
        self.own_files |= set(['  # Contains markup around the copyright owner.
                        '})
def get_line_filter(self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile('// \(C\) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter(self, dir, filename)

class GCCCopyright(Copyright):
    def __init__(self, errors):
        Copyright.__init__(self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author('Free Software Foundation', canon_fsf)
        self.add_package_author('Free Software Foundation.', canon_fsf)
        self.add_package_author('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author('The Free Software Foundation', canon_fsf)
        self.add_package_author('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author('Software Foundation, Inc.', canon_fsf)

        self.add_external_author('ARM')
        self.add_external_author('AdaCore')
        self.add_external_author('Ami Tavory and Vladimir Dreizin, IBM-HRL.]
        self.add_external_author('Cavium Networks.')
        self.add_external_author('Faraday Technology Corp.')
        self.add_external_author('Florida State University')
        self.add_external_author('Greg Colvin and Beman Dawes.')
        self.add_external_author('Hewlett-Packard Company')
        self.add_external_author('Information Technology Industry Council.')
        self.add_external_author('James Theiler, Brian Gough')
        self.add_external_author('Makoto Matsumoto and Takuji Nishimura,')
        self.add_external_author('National Research Council of Canada.')
        self.add_external_author('NVIDIA Corporation')
        self.add_external_author('Peter Dimov and Multi Media Ltd.')
        self.add_external_author('Peter Dimov')
        self.add_external_author('Pipeline Associates, Inc.')
        self.add_external_author('Regents of the University of California.')
        self.add_external_author('Silicon Graphics Computer Systems, Inc.')
        self.add_external_author('Silicon Graphics')
        self.add_external_author('Stephen L. Moshier')
        self.add_external_author('Sun Microsystems, Inc. All rights reserved.]
        self.add_external_author('The Go Authors. All rights reserved.')
        self.add_external_author('The Go Authors. All rights reserved.')
        self.add_external_author('The Go Authors,')
        self.add_external_author('The Regents of the University of California.')
        self.add_external_author('Unicode, Inc.')
self.add_external_author ('University of Toronto.')

class GCCCmdLine (CmdLine):
    def __init__(self):
        CmdLine.__init__(self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir ('fixincludes')
        self.add_dir ('gcc', GCCFilter())
        self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir ('gnattools')
        self.add_dir ('include')
        self.add_dir ('libada')
        self.add_dir ('libatomic')
        self.add_dir ('libbacktrace')
        self.add_dir ('libcpp', LibCppFilter())
        self.add_dir ('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir ('libgcc', LibGCCFilter())
        self.add_dir ('libgfortran')
        self.add_dir ('libgomp')
        self.add_dir ('libiberty')
        self.add_dir ('libitm')
        self.add_dir ('libjava', LibJavaFilter())
        self.add_dir (os.path.join ('libjava', 'testsuite'), TestsuiteFilter())
        self.add_dir ('libmudflap', LibMudflapFilter())
        self.add_dir (os.path.join ('libmudflap', 'testsuite'), TestsuiteFilter())
        self.add_dir ('libobjc')
        self.add_dir ('libquadmath')
        # libsanitiser is imported from upstream.
        self.add_dir ('libsan')
        self.add_dir ('libssp')
        self.add_dir ('libstdc++-v3', LibStdCxxFilter())
        self.add_dir ('libvtv')
        self.add_dir ('lto-plugin')
        # zlib is imported from upstream.

        self.default_dirs = [
            'gcc',
            'libada',
            'libatomic',
            'libbacktrace',
            'libcpp',
            'libdecnumber',
            'libgcc',
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 GCCCMLLine().main()
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<title>License</title>
<meta name="generator" content="DocBook XSL-NS Stylesheets V1.78.1" />
<meta name="keywords" content="ISO C++, library" />
<meta name="keywords" content="ISO C++, runtime, library" />
<link rel="home" href="../index.html" title="The GNU C++ Library" />
<link rel="up" href="status.html" title="Chapter1.Status" />
<link rel="prev" href="status.html" title="Chapter1.Status" />
<link rel="next" href="bugs.html" title="Bugs" />
<body>
<div class="navheader">
<table width="100%" summary="Navigation header">
<tr>
<td width="20%" align="left"><a accesskey="p" href="status.html">Prev</a></td>
<th width="60%" align="center">Chapter1.Status</th>
<td width="20%" align="right"><a accesskey="n" href="bugs.html">Next</a></td>
</tr>
</table>
<hr />
</div>
<div class="section">
<div class="titlepage">
<div><div><h2 class="title" style="clear: both"><a id="manual.intro.status.license"></a>License</h2></div></div>
</div>
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Version 3.1.31 March 2009

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define __gnu_javax_sound_AudioSecurityManager$Permission__

#pragma interface

#include <java/lang/Enum.h>
#include <gcj/array.h>

extern "Java"
{
namespace gnu
{
namespace javax
{
namespace sound
{
class AudioSecurityManager$Permission;
}
}
}

class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
{
AudioSecurityManager$Permission(::java::lang::String *, jint);

public:
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;

private:
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUM$VALUES;

public:
static ::java::lang::Class class$;
};

#endif // __gnu_javax_sound_AudioSecurityManager$Permission__

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```
16/gnu/java/sound/AudioSecurityManager$Permission
< init>(Ljava/lang/String;I)V
LineNumberTable
LocalVariableTable
thisvalues
arraycopy*(Ljava/lang/Object;ILjava/lang/Object;II)V
valueOfE(Ljava/lang/String;)Lgnu/java/sound/AudioSecurityManager$Permission;
W&%java/lang/System'(arraycopy*(Ljava/lang/Object;ILjava/lang/Object;II)V
valueOfE(Ljava/lang/String;)Lgnu/java/sound/AudioSecurityManager$Permission;
)>()V

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```
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< init>(Ljava/lang/String;I)V
LineNumberTable
LocalVariableTable
thisvalues
arraycopy*(Ljava/lang/Object;ILjava/lang/Object;II)V
valueOfE(Ljava/lang/String;)Lgnu/java/sound/AudioSecurityManager$Permission;
W&%java/lang/System'(arraycopy*(Ljava/lang/Object;ILjava/lang/Object;II)V
valueOfE(Ljava/lang/String;)Lgnu/java/sound/AudioSecurityManager$Permission;
)>()V

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LineNumberTable
LocalVariableTable
thisvalues
arraycopy*(Ljava/lang/Object;ILjava/lang/Object;II)V
valueOfE(Ljava/lang/String;)Lgnu/java/sound/AudioSecurityManager$Permission;
W&%java/lang/System'(arraycopy*(Ljava/lang/Object;ILjava/lang/Object;II)V
valueOfE(Ljava/lang/String;)Lgnu/java/sound/AudioSecurityManager$Permission;
)>()V

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valueOfE(Ljava/lang/String;)Lgnu/java/sound/AudioSecurityManager$Permission;
W&%java/lang/System'(arraycopy*(Ljava/lang/Object;ILjava/lang/Object;II)V
valueOfE(Ljava/lang/String;)Lgnu/java/sound/AudioSecurityManager$Permission;
)>()V

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LineNumberTable
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arraycopy*(Ljava/lang/Object;ILjava/lang/Object;II)V
valueOfE(Ljava/lang/String;)Lgnu/java/sound/AudioSecurityManager$Permission;
W&%java/lang/System'(arraycopy*(Ljava/lang/Object;ILjava/lang/Object;II)V
valueOfE(Ljava/lang/String;)Lgnu/java/sound/AudioSecurityManager$Permission;
)>()V

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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:";

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

    public boolean inOverview() {
        return true;
    }

    public boolean inPackage() {
        return true;
    }

    public boolean inType() {
        return true;
    }
}
public boolean isInlineTag() {
    return false;
}

public static void register(Map tagletMap) {
    CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
    tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}

public String toString(Tag tag) {
    return toString(new Tag[] { tag });
}

public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    }
    else {
        boolean haveValidTag = false;
        for (int i = 0; i < tags.length && !haveValidTag; ++i) {
            if (tags[i].text().length() > 0) {
                haveValidTag = true;
            }
        }
        if (haveValidTag) {
            StringBuffer result = new StringBuffer();
            result.append("<dl>");
            for (int i = 0; i < tags.length; i++) {
                if (tags[i].text().length() > 0) {
                    result.append("<dt><i>Copyright © " + tags[i].text() + "</i></dt>"");
                }
            result.append("</dl>");
            return result.toString();
        }
    else {
        return null;
    }
    }
}

/*
 * (C) Copyright 2005-2008 by currey.org, All Rights Reserved.
 * Use of this source is governed by the LGPL 1.0 License,
 * see the LICENSE file.
 */
LineNumberTableLocalVariableTablethis-
Lgnu/classpath/tools/taglets/CopyrightTaglet;getName()Ljava/lang/String;inField()Z
inConstructorinMethod
inOverviewinPackageinTypesInlineTagregister(Ljava/util/Map;)V
&(*)
java/util/Map+.put8(Ljava/lang/Object;Ljava/lang/Object;Ljava/lang/Object;
tagletMapLjava/util/Map;copyrightTaglettoString)(Lcom/sun/javadoc/Tag;)Ljava/lang/String;3com/sun/javadoc/Ta
506*({Lcom/sun/javadoc/Tag;Ljava/lang/String;tagLcom/sun/javadoc/Tag;2::text
= степени уJar/Java/lang/String@ALength()I<Java/lang/StringBuffer
BF<dt>
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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 * *
 * <p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 * *
 * <p><code>Permission</code>'s must be immutable - do not change their
 * state after creation.
 * *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 * @see Permissions
 * @see PermissionCollection
 * @since 1.1
 * @status updated to 1.4
public abstract class Permission implements Guard, Serializable
{
    /**
     * Compatible with JDK 1.1+
     */
    private static final long serialVersionUID = -5636570222231596674L;

    /**
     * This is the name assigned to this permission object.
     *
     * @serial the name of the permission
     */
    private String name;

    /**
     * Create an instance with the specified name.
     *
     * @param name the permission name
     */
    public Permission(String name)
    {
        this.name = name;
    }

    /**
     * This method implements the <code>Guard</code> interface for this class.
     * It calls the <code>checkPermission</code> method in
     * <code>SecurityManager</code> with this <code>Permission</code> as its
     * argument. This method returns silently if the security check succeeds
     * or throws an exception if it fails.
     *
     * @param obj the <code>Object</code> being guarded - ignored by this class
     * @throws SecurityException if the security check fails
     * @see GuardedObject
     * @see SecurityManager#checkPermission(Permission)
     */
    public void checkGuard(Object obj)
    {
        SecurityManager sm = System.getSecurityManager();
        if (sm != null)
            sm.checkPermission(this);
    }

    /**
     * This method tests whether this <code>Permission</code> implies that the
     * specified <code>Permission</code> is also granted.
     *
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>equals</code>, rather
 * than <code>equals</code>, when making access control decisions.
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>equals</code>: it must be
 * the same for all objects that equals considers to be the same.
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 * @return the name
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a String representation of this Permission object. This is in the format:
 * (' + getClass().getName() + ' ' + getName() + ' ' + getActions + ')
 * @return this object as a String
 */
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());
    if (!(getActions().equals("")))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }

    string = string.append(')');
    return string.toString();
}
} // class Permission
/* Permission.java -- Information about an ACL permission
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package java.security.acl;

/**
 * This interface provides information about a permission that can be granted. Note that this is not the same as the class java.security.Permission.
 *
 * @version 0.0
 *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
public interface Permission
{
/**
 * This method tests whether or not a specified Permission (passed as an Object) is the same as this permission.
 *
 * @param perm The permission to check for equality
 *
 * @return true if the specified permission is the same as this one, false otherwise
 */
boolean equals (Object perm);
/**
 * This method returns this <code>Permission</code> as a <code>String</code>.
 *
 * @return A <code>String</code> representing this permission.
 */
String toString();
}

// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __java_security_Permission__
define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{
class Permission;

class PermissionCollection;
}
}
}

class java::security::Permission : public ::java::lang::Object
{

public:

Permission(::java::lang::String *);
virtual void checkGuard(::java::lang::Object *
);
virtual jboolean implies(::java::security::Permission *) = 0;
virtual jboolean equals(::java::lang::Object *) = 0;
virtual jint hashCode() = 0;
virtual ::java::lang::String * getName();
virtual ::java::lang::String * getActions() = 0;
virtual ::java::security::PermissionCollection * newPermissionCollection();
virtual ::java::lang::String * toString();

private:

static const jlong serialVersionUID = -5636570222231596674LL;
::java::lang::String * __attribute__((aligned(__alignof__( ::java::lang::Object)))) name;
}

class java::lang::Class class$;
}
#ifndef __java_security_acl_Permission__
#define __java_security_acl_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{
namespace acl
{
    class Permission;
}
}
}
}

class java::security::acl::Permission : public ::java::lang::Object
{

public:
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual ::java::lang::String * toString() = 0;
    static ::java::lang::Class class$;
} __attribute__ ((java_interface));
#endif // __java_security_acl_Permission__

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It was later taken over by Matthias Urlichs <smurf@debian.org> and is now maintained by Andreas Metzler <ametzler@debian.org> Eric Dorland <eric@debian.org>, James Westby <jw+debian@jameswestby.net>

It was downloaded from ftp://ftp.gnuls.org/gcrypt/gnults/

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lib/extras/randomart.

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Copyright: 2008-2014 Intel Corporation
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Comment: This code is not used on Debian/*, since we have a working
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lib/extras/hex.*
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It was later taken over by Matthias Urlichs <smurf@debian.org> and is now
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lib/accelerated/x86/elf/aes-ssse3-x86.s
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lib/system/inet_pton.c

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Comment: This code is not used on Debian/*/ since we have a working
vasprintf() in glibc.

lib/extras/hex.*
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### 1.147 libgpm2 amd64:1.20.4-6.2+b1

#### 1.147.1 Available under license:

This is Debian GNU/Linux's prepackaged version of the General Purpose Mouse Interface utility. The general purpose mouse daemon tries to be a useful mouse server for applications running on the Linux console.

This package was put together by, James Troup <james@nocrew.org>.

Now maintained as a team by:

- Guillem Jover <guillem@debian.org>
- Peter Samuelson <peter@p12n.org>

The upstream source was downloaded from:

<http://unix.schottelius.org/gpm/archives/>

The initial changes while packaging were minor:

- adding support for the Debian package maintenance scheme, by adding various debian/* files.
- gpm.c (processConn): type of socket length changed (size_t -> socklen_t).
- debuglog.c: #include <string.h> to quiet -Wall.
- doc/Makefile.in (maintainer-clean): clean without interaction and clean all relevant files (i.e. gpm.info-{1,2}).
- doc/Makefile.in: add support for mouse-test.1.

The following changes were thought of and done mostly by François Gouget <fgouget@mygale.org>; though I didn't apply his patches as they were for various reasons:

- gpn.c (cmdline): modified handling of -t command line argument, so it can be used by anyone regardless of whether or not a copy of gpm is already running.
- gpn.c (usage): update for new -t option "types".
- mice.c: improved descriptions of mouse types.
- mice.c (M_listMice): function used by -t help, reworked version of old M_listTypes.
- mice.c (M_listTypes): function used by -t types; lists only
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```
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```

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```
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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1.148 libgssapi-krb5-2 amd64:1.15-1+deb9u1

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# This program is intended to be used by "make check-copyright". It
# checks for violations of the coding standards related to copyright
# and license statements in source code comments.

import os
import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        elif code_seen:
            warn(fname, ln, 'License after code')
        elif nonlicense_seen:
            warn(fname, ln, 'License after non-license comments')
        break
    # DB2 licenses start with '/**-' and we don't want to change them.
    if line != "" and line != '/*':
        text_seen = True
def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1

    # Check filename comment if present.
    m = re.match(r'(^.* (?<!\*))\(.*?\)* */', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1

    # Scan for license statements.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]:
        # Strip out whitespace and comments contained within a line.
        if not in_comment:
            line = re.sub(r'(^.*?\*\*\*)', '', line)
            line = line.strip()
            if not in_comment and '/**' in line:
                (line, sep, comment_part) = line.partition('/**')
                comment = [comment_part.strip()]
                comment_starts_at = ln
                in_comment = True
            elif in_comment and '*/' not in line:
                comment.append(line.lstrip('*').lstrip())
            elif in_comment:
                (comment_part, sep, line) = line.partition('*/')
                comment.append(comment_part.strip())
            is_license = check_comment(comment, fname, comment_starts_at,
                                         code_seen, nonlicense_seen)
            nonlicense_seen = nonlicense_seen or not is_license
            in_comment = False
        elif line.strip() != '':
            code_seen = True
        ln += 1

    for fname in sys.argv[1:]
        if fname.startswith('./'):
            fname = fname[2:]
        f = open(fname)
lines = f.readlines()
f.close()
check_file(lines, fname)
/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */
/*
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    cmd/krb5/iprop/iprop_hdr.h
    cmd/krb5/kadmin/server/ipropd_svc.c
    cmd/krb5/kproplog/kproplog.c
    cmd/krb5/slave/kpropd_rpc.c
    lib/gss_mechs/mech_krb5/et/kdb5_err.c
    lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
    lib/gss_mechs/mech_spnego/mach/spnego_mech.c
    lib/krb5/kadm5/kadm_host_srv_names.c
    lib/krb5/kdb/kdb_convert.c
    lib/krb5/kdb/kdb_hdr.h
    lib/krb5/kdb/kdb_log.c
    lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
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lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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<script type="text/javascript">
 var DOCUMENTATION_OPTIONS = {
 URL_ROOT: ",
 VERSION: '1.12.1',
 COLLAPSE_INDEX: false,
 FILE_SUFFIX: '.html',
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};
</script>
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```
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c
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.. parsed-literal::

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   lib/gssapi/mechglue/g_accept_sec_context.c
   lib/gssapi/mechglue/g_acquire_cred.c
   lib/gssapi/mechglue/g_canon_name.c
   lib/gssapi/mechglue/g_compare_name.c
and the initial implementation of incremental propagation, including
the following new or changed files:

.. parsed-literal::

   include/iprop_hdr.h
   kadmin/server/ipropd_svc.c
   lib/kdb/prop.x
   lib/kdb/kdb_convert.c
   lib/kdb/kdb_log.c
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

    lib/gssapi/generic/gssapi_err_generic.et
    lib/gssapi/mechglue/g_accept_sec_context.c
    lib/gssapi/mechglue/g_acquire_cred.c
    lib/gssapi/mechglue/g_canon_name.c
    lib/gssapi/mechglue/g_compare_name.c
    lib/gssapi/mechglue/g_context_time.c
    lib/gssapi/mechglue/g_delete_sec_context.c
    lib/gssapi/mechglue/g_dsp_name.c
    lib/gssapi/mechglue/g_dsp_status.c
    lib/gssapi/mechglue/g_dup_name.c
    lib/gssapi/mechglue/g_exp_sec_context.c
    lib/gssapi/mechglue/g_export_name.c
    lib/gssapi/mechglue/g_glue.c
    lib/gssapi/mechglue/g_imp_name.c
    lib/gssapi/mechglue/g_imp_sec_context.c
    lib/gssapi/mechglue/g_init_sec_context.c
    lib/gssapi/mechglue/g_initialize.c
    lib/gssapi/mechglue/g_inquire_context.c
    lib/gssapi/mechglue/g_inquire_cred.c
    lib/gssapi/mechglue/g_inquire_names.c
    lib/gssapi/mechglue/g_process_context.c
    lib/gssapi/mechglue/g_rel_buffer.c
    lib/gssapi/mechglue/g_rel_cred.c
    lib/gssapi/mechglue/g_rel_name.c
    lib/gssapi/mechglue/g_rel_oid_set.c
    lib/gssapi/mechglue/g_seal.c
    lib/gssapi/mechglue/g_sign.c
    lib/gssapi/mechglue/g_store_cred.c
    lib/gssapi/mechglue/g_unseal.c
    lib/gssapi/mechglue/g_userok.c
    lib/gssapi/mechglue/g_utils.c
    lib/gssapi/mechglue/g_verify.c
    lib/gssapi/mechglue/gssd_pname_to_uid.c
    lib/gssapi/mechglue/mglueP.h
    lib/gssapi/mechglue/oid_ops.c
    lib/gssapi/spnego/gssapiP_spnego.h
    lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

```
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c
```

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```makefile
## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIE

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
```
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.c) $< \
| sed "s/\($*\)$@/\1.o $@ : /" > $@; \ 
| -s $@ \| rm -f $@
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.cc) $< \
| sed "s/\($*\)$@/\1.o $@ : //g" > $@; \ 
| -s $@ \| rm -f $@

## Versioned libraries rules
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s $(<F) $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s $(<F).$(SO).$(SO_TARGET_VERSION) $@

## Bind internal references
# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup
<DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
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<title>ICU License - moved to LICENSE</title>
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<body BGCOLOR="#ffffff">

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@enumerate
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This is an attempt to acknowledge early contributions to the garbage
collector. Later contributions should instead be mentioned in
README.changes.

HISTORY -

Early versions of this collector were developed as a part of research
projects supported in part by the National Science Foundation
and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for
the Russell programming language implementation. The first version of the
garbage collector was written primarily by Al Demers. It was then refined
and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,
the University of Washington, Rice University (where it was first used for
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant
contributions have also been made by many others.
Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Petersen(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(age@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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#!/usr/bin/python
#
# Copyright (C) 2013-2016 Free Software Foundation, Inc.
#
# This script is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)
# any later version.

# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
#   Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
#   update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
new files have been added with old years). On the other hand:
#
#	update-copyright.pl --this-year libjava
#
#	would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__ (self):
        self.num_errors = 0

def report (self, filename, string):
    if filename:
        string = filename + ': ' + string
    sys.stderr.write (string + '\n')
    self.num_errors += 1

def ok (self):
    return self.num_errors == 0

class GenericFilter:
    def __init__ (self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set (['
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',}]
# Skip auto- and libtool-related files
'aclocal.m4',
'compile',
'config.guess',
'config.sub',
'depcomp',
'install-sh',
'libtool.m4',
'ltmain.sh',
'lt~obsolete.m4',
'missing',
'mkdep',
'mkinstalldirs',
'move-if-change',
'shlibpath.m4',
'symlink-tree',
'ylwrap',

# Skip FSF mission statement, etc.
'gnu.texi',
'funding.texi',
'appendix_free.xml',

# Skip imported texinfo files.
'texinfo.tex',
}


def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('	')
    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
if os.path.exists (base + '.am'):
    return True

# Skip files produced by autogen
if (os.path.exists (base + '.def')
    and os.path.exists (base + '.tpl')):
    return True

# Skip configure files produced by autoconf
if filename == 'configure':
    if os.path.exists (base + '.ac'):
        return True
    if os.path.exists (base + '.in'):
        return True

return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True

    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

        # Characters in a range of years.  Include '.' for typos.
        ranges = '[0-9][\?[-0-9.,\s]\s+and\s+]*[0-9]'

        # Non-whitespace characters in a copyright holder's name.
        name = '\[w-\]'

        # Matches one year.
        self.year_re = re.compile ('^[0-9]+$')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + '| ' + name)

        # Matches a full copyright notice:
self.copyright_re = re.compile (  
  # 1: 'Copyright (C)', etc.  
  '((Cc)opyright'  
  '[(Cc]opyright\s+\[(Cc]\)]'  
  '[(Cc]opyright\s+%s'  
  '[(Cc]opyright\s+@copyright;'  
  '[(Cc]opyright\s+@copyright{)'  
  'copyright = ""'  
  '[@sets+copyright\w-]+)'  
  
  # 2: the years. Include the whitespace in the year, so that  
  # we can remove any excess.  
  '\(\s*\(?:.+ ranges +\?\)\)  
  '\(\@value\{[^{}]*\}\)s*\)'  
  
  # 3: 'by ', if used  
  '\(by\s+\)?'  
  
  # 4: the copyright holder. Don't allow multiple consecutive  
  # spaces, so that right-margin gloss doesn't get caught  
  # (e.g. gnat_ugn.texi).  
  '\(' + name + '\?\s?' + name + '\).*\)?'  
  
  # A regexp for notices that might have slipped by. Just matching  
  # 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of  
  # HTML header markers, so check for 'copyright' and two digits.  
  self.other_copyright_re = re.compile ('copyright.*[0-9][0-9]',  
    re.IGNORECASE)  
  
  self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')  
  self.holders = { '@copying': '@copying' }  
  self.holder_prefixes = set()  
  
  # True to 'quilt add' files before changing them.  
  self.use_quilt = False  
  
  # If set, force all notices to include this year.  
  self.max_year = None  
  
  # Goes after the year(s). Could be ', '.  
  self.separator = ','  
  
  def add_package_author (self, holder, canon_form = None):  
    if not canon_form:  
      canon_form = holder  
    self.holders[holder] = canon_form  
    index = holder.find ('')  
    while index >= 0:  
      self.holder_prefixes.add (holder[:index])

index = holder.find (',', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
    elif len (string) == 4:
        return year
    else:
        raise self.BadYear (string)

def year_range (self, years):
    year_list = [self.parse_year (year)
                 for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value '):
        return years
    (min_year, max_year) = self.year_range (years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
        max_year = max (max_year, self.max_year)

    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
else:
    return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder
        and (holder not in self.holder_prefixes
            or holder in self.holders))

def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join(dir, filename)

    intro = match.group(1)
    if intro.startswith('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end(2):].strip()
        if after_years != '':
            self.errors.report(pathname,
                'trailing characters in @set: ' + after_years)
            return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete(match):
            try:
                next_line = file.next()
            except StopIteration:
                break

            # If the next line doesn't look like a proper continuation,
            # assume that what we've got is complete.
            continuation = self.strip_continuation(next_line)
            if not self.continuation_re.match(continuation):
                break

            # Merge the lines for matching purposes.
            orig_line += next_line
            line = line.rstrip() + ' ' + continuation
            next_line = None
# Rematch with the longer line, at the original position.
match = self.copyright_re.match (line, match.start())
assert match

holder = match.group (4)

# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author (dir, filename):
    assert holder not in self.holders

elif not holder:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report (pathname, 'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
            + canon_form
            + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
        return (False, orig_line, next_line)

    line = (line[:match.start (2)]
            + ('' if intro.startswith ('copyright = ') else ' ')
            + canon_form + self.separator
            + line[match.end (2):])
# Use the standard (C) form.
if intro.endswith('right'):
    intro += ' (C)'
elif intro.endswith('(c)'):
    intro = intro[:-3] + '(C')
line = line[:match.start(1)] + intro + line[match.end(1):]

# Strip trailing whitespace
line = line.rstrip() + '\n'

return (line != orig_line, line, next_line)

def process_file(self, dir, filename, filter):
    pathname = os.path.join(dir, filename)
    if filename.endswith('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove(pathname)
        except OSError:
            pass
        return
    lines = []
    changed = False
    line_filter = filter.get_line_filter(dir, filename)
    with open(pathname, 'r') as file:
        prev = None
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match(line)):
                    match = self.copyright_re.search(line)
                    if match:
                        res = self.update_copyright(dir, filename, filter,
                                                     file, line, match)
                        (this_changed, line, next_line) = res
                        changed = changed or this_changed
                    # Check for copyright lines that might have slipped by.
                    elif self.other_copyright_re.search(line):
                        self.errors.report(pathname,
                                            'unrecognised copyright: %s'
                                            % line.strip())
                        lines.append(line)
                        line = next_line
                # If something changed, write the new file out.
if changed and self.errors.ok():
    tmp_pathname = pathname + '.tmp'
with open (tmp_pathname, 'w') as file:
    for line in lines:
        file.write (line)
if self.use_quilt:
    subprocess.call (["quilt", 'add', pathname])
os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange (len (subdirs) - 1, -1, -1):
            if filter.skip_dir (dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file (dir, filename):
                sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
            else:
                self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', '"quilt add" files before changing them',
                        self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice',
                        self.o_this_year)

        def add_option (self, name, help, handler):
            self.option_help.append ((name, help))
            self.option_handlers[name] = handler

        def add_dir (self, dir, filter = GenericFilter()):
            self.dirs.append ((dir, filter))

        def o_help (self, option = None):
sys.stdout.write ('Usage: %s [options] dir1 dir2...

' % sys.argv[0])
format = '%-15s %s
'
for (what, help) in self.option_help:
    sys.stdout.write (format % (what, help))
sys.stdout.write ('nDirectories:
')
format = '%-25s'
i = 0
for (dir, filter) in self.dirs:
i += 1
    if i % 3 == 0 or i == len (self.dirs):
        sys.stdout.write (dir + '
')
    else:
        sys.stdout.write (format % dir)
sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[1:] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
if self.errors.ok():
    if len (self.chosen_dirs) == 0:
        self.chosen_dirs = self.default_dirs
if len (self.chosen_dirs) == 0:
    self.o_help()
else:
    for chosen_dir in self.chosen_dirs:
        canon_dir = os.path.join (chosen_dir, '')
count = 0
for (dir, filter) in self.dirs:
    if (dir + os.sep).startswith (canon_dir):
        count += 1
self.copyright.process_tree (dir, filter)
if count == 0:
    self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
sys.exit (0 if self.errors.ok() else 1)
class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
    
def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ({
            # Not part of GCC
            'math-68881.h',
        })

        self.skip_dirs |= set ({
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
        })

        self.skip_extensions |= set ({
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        })

        self.fossilised_files |= set ({
            # Old news won't be updated.
            'ONEWS',
        })
class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set ([
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
        ])

    def skip_file (self, dir, filename):
        # g++.niklas/README contains historical copyright information
        # and isn't updated.
        if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
            return True
        return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set ([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Imported from GLIBC.
            'soft-fp',
        ])
class LibJavaFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs = set([
            '# Handled separately.
            'testsuite',

            '# Not really part of the library
            'contrib',

            '# Imported from upstream
            'classpath',
            'libltdl',
        ])

def get_line_filter (self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile ('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile ('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter (self, dir, filename)

class LibMudflapFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs = set([
            '# Handled separately.
            'testsuite',
        ])

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files = set([
            '# Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ])

        self.skip_dirs = set([
            '# Contains automatically-generated sources.
            'html',

            '# The testsuite data files shouldn't be changed.
            'data',
        ])

        self.skip_dirs |= set ([
            '# Handled separately.
            'testsuite',

            '# Not really part of the library
            'contrib',

            '# Imported from upstream
            'classpath',
            'libltdl',
        ])
# Contains imported images
'messages',
])

self.own_files |= set([
    # Contains markup around the copyright owner.
    'spine.xml',
])

def get_line_filter (self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile ('// (C) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

canon_fsf = 'Free Software Foundation, Inc.'
self.add_package_author ('Free Software Foundation', canon_fsf)
self.add_package_author ('Free Software Foundation.', canon_fsf)
self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
self.add_package_author ('The Free Software Foundation', canon_fsf)
self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
self.add_package_author ('Software Foundation, Inc.', canon_fsf)
self.add_package_author ('ARM')
self.add_external_author ('AdaCore')
self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
self.add_external_author ('Cavium Networks.')
self.add_external_author ('Faraday Technology Corp.')
self.add_external_author ('Florida State University')
self.add_external_author ('Greg Colvin and Beman Dawes.')
self.add_external_author ('Hewlett-Packard Company')
self.add_external_author ('Information Technology Industry Council.')
self.add_external_author ('James Theiler, Brian Gough')
self.add_external_author ('Makoto Matsumoto and Takuji Nishimura,')
self.add_external_author ('National Research Council of Canada.')
self.add_external_author ('NVIDIA Corporation')
self.add_external_author ('Peter Dimov and Multi Media Ltd.')
self.add_external_author ('Peter Dimov')
self.add_external_author ('Pipeline Associates, Inc.')
self.add_external_author ('Regents of the University of California.')
self.add_external_author ('Silicon Graphics Computer Systems, Inc.')
self.add_external_author ('Silicon Graphics')
self.add_external_author ('Stephen L. Moshier')
class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir ('fixincludes')
        self.add_dir ('gcc', GCCFilter())
        self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir ('gnattools')
        self.add_dir ('include')
        self.add_dir ('libada')
        self.add_dir ('libatomic')
        self.add_dir ('libbacktrace')
        self.add_dir ('libcpp', LibCppFilter())
        self.add_dir ('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir ('libgcc', LibGCCFilter())
        self.add_dir ('libgfortran')
        self.add_dir ('libgomp')
        self.add_dir ('libiberty')
        self.add_dir ('libitm')
        self.add_dir ('libobjc')
        self.add_dir ('libquadmath')
        # libsanitiser is imported from upstream.
        self.add_dir ('libssp')
        self.add_dir ('libstdc++-v3', LibStdCxxFilter())
        self.add_dir ('libvtv')
        self.add_dir ('lto-plugin')
        # zlib is imported from upstream.

        self.default_dirs = [
            'gcc',
        ]
GCCCmdLine().main()

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However, linking a "work that uses the Library" with the Library
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contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
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6. As an exception to the Sections above, you may also combine or
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with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
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to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
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copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
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exception statement from your version. */

package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
* A simple Taglet which handles Copyright information.
* /
public class CopyrightTaglet implements Taglet {

private static final String NAME = "copyright";
private static final String HEADER = "Copyright:";

public String getName() {
    return NAME;
}

public boolean inField() {
    return true;
}

public boolean inConstructor() {
    return true;
}

public boolean inMethod() {
    return true;
}

public boolean inOverview() {
    return true;
}

public boolean inPackage() {
    return true;
}

public boolean inType() {
    return true;
}
public boolean isInlineTag() {
    return false;
}

public static void register(Map tagletMap) {
    CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
    tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}

public String toString(Tag tag) {
    return toString(new Tag[] { tag });
}

public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    }
    else {
        boolean haveValidTag = false;
        for (int i = 0; i < tags.length && !haveValidTag; ++i) {
            if (tags[i].text().length() > 0) {
                haveValidTag = true;
            }
        }
        if (haveValidTag) {
            StringBuffer result = new StringBuffer();
            result.append("<dl>");
            for (int i = 0; i < tags.length; i++) {
                if (tags[i].text().length() > 0) {
                    result.append("<dt><i>Copyright © " + tags[i].text() + "</i></dt>");
                }
            }
            result.append("</dl>");
            return result.toString();
        }
        else {
            return null;
        }
    }
}

If+gnu/classpath/tools/taglets/CopyrightTagletjava/lang/Objectcom/sun/tools/doclets/TagletNAMELjava/lang/Strin
g;
ConstantValue
copyrightHEADER
Copyright:<init>()VCode
LineNumberTableLocalVariableTablethis-
Lgnu/classpath/tools/taglets/CopyrightTaglet;getName()Ljava/lang/String;inField()Z
inConstructorinMethod
inOverviewwinPackageinTypeisinInlineTagregister(Ljava/util/Map;)V
&(*)
java/util/Map+.put8(Ljava/lang/Object;Ljava/lang/Object;Ljava/lang/Object;
tagletMapjava/util/Map;copyrightTaglettoString)(Lcom/sun/javadoc/Tag;)Ljava/lang/String;3com/sun/javadoc/Tag
g506*(Lcom/sun/javadoc/Tag;Ljava/lang/String;tagLcom/sun/javadoc/Tag;2::text
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BHIJappend,(Ljava/lang/String;)Ljava/lang/StringBuffer;Ljava/lang/StringBuilderN<dt><i>Copyright ©169;
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/* Permission.java -- The superclass for all permission objects

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 * 
 * <p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 * 
 * <p><code>Permission</code>'s must be immutable - do not change their
 * state after creation.
 * 
 * @author Aaron M. Renn (arenn@urbanophile.com)
 * @see Permissions
 * @see PermissionCollection
 * @since 1.1
 * @status updated to 1.4
 */

public abstract class Permission implements Guard, Serializable
private static final long serialVersionUID = -563657022231596674L;

/**
 * This is the name assigned to this permission object.
 *
 * @serial the name of the permission
 */
private String name;

/**
 * Create an instance with the specified name.
 *
 * @param name the permission name
 */
public Permission(String name)
{
    this.name = name;
}

/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in
 * <code>SecurityManager</code> with this <code>Permission</code> as its
 * argument. This method returns silently if the security check succeeds
 * or throws an exception if it fails.
 *
 * @param obj the <code>Object</code> being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 * @see GuardedObject
 * @see SecurityManager#checkPermission(Permission)
 */
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 *
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather
 * than <code>equals</code>, when making access control decisions.
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 * @return the name
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 *
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>'(' + getClass().getName() + ' ' + getName() + ' ' + getActions
 * + ')'</code>.
 *
 * @return this object as a <code>String</code>
 */
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());

    if (!(getActions().equals("")))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }

    string = string.append(')');
    return string.toString();
}
} // class Permission

/* Permission.java -- Information about an ACL permission
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package java.security.acl;

/**
 * This interface provides information about a permission that can be granted. Note that this is not the same as the class <code>java.security.Permission</code>.
 *
 * @version 0.0
 *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */

public interface Permission {
    /**
     * This method tests whether or not a specified <code>Permission</code> (passed as an <code>Object</code>) is the same as this permission.
     *
     * @param perm The permission to check for equality
     *
     * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
     */
    boolean equals (Object perm);

    /**
     * This method returns this <code>Permission</code> as a <code>String</code>.
     */
}
* @return A <code>String</code> representing this permission.
 */

String toString();
}

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// DO NOT EDIT THIS FILE - it is machine generated.

#ifndef __java_security_Permission__
#define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{
    class Permission;
    class PermissionCollection;
}
}
}

class java::security::Permission : public ::java::lang::Object
{

public:
    Permission(::java::lang::String *);
    virtual void checkGuard(::java::lang::Object *);
    virtual jboolean implies(::java::security::Permission *) = 0;
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual jint hashCode() = 0;
    virtual ::java::lang::String * getName();
    virtual ::java::lang::String * getActions() = 0;
    virtual ::java::security::PermissionCollection * newPermissionCollection();
    virtual ::java::lang::String * toString();

private:
    static const jlong serialVersionUID = -563657022231596674LL;
    ::java::lang::String * __attribute__((aligned(__alignof__( ::java::lang::Object)))) name;

public:
    static ::java::lang::Class class$;
};

#endif // __java_security_Permission__

// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __java_security_acl_Permission__
#define __java_security_acl_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
    namespace security
    {
        namespace acl
        {
            class Permission;
        }
    }
}
class java::security::acl::Permission : public ::java::lang::Object
{
  
public:
  virtual jboolean equals(::java::lang::Object *) = 0;
  virtual ::java::lang::String * toString() = 0;
  static ::java::lang::Class class$;
} __attribute__ ((java_interface));

#endif // __java_security_acl_Permission__

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creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
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of these things:

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changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least
three years, to give the same user the materials specified in
Subsection 6a, above, for a charge no more than the cost of
performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
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For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
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which the executable runs, unless that component itself accompanies
the executable.

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<td>mach_override</td>
<td>lib/interception/mach_override</td>
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1.161 libk5crypto3 amd64:1.15-1+deb9u1

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# and license statements in source code comments.

import os
import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        elif code_seen:
            warn(fname, ln, 'License after code')
        elif nonlicense_seen:
            warn(fname, ln, 'License after non-license comments')
        break
        # DB2 licenses start with '/*-' and we don't want to change them.
    if line != '' and line != '-':
        text_seen = True
    return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1
# Check filename comment if present.
m = re.match(r'/\* ([^ ]*)( - .*)? \*/', lines[ln])
if m:
    if m.group(1) != fname:
        warn(fname, ln, 'Wrong filename in comment')
    ln += 1

# Scan for license statements.
in_comment = False
code_seen = False
nonlicense_seen = False
for line in lines[ln:]:
    # Strip out whitespace and comments contained within a line.
    if not in_comment:
        line = re.sub(r'/\*.*?\*/', '', line)
        line = line.strip()
    if not in_comment and '/*' in line:
        (line, sep, comment_part) = line.partition('/*')
        comment = [comment_part.strip()]
        comment_starts_at = ln
        in_comment = True
    elif in_comment and '*/' not in line:
        comment.append(line.lstrip('*').lstrip())
        in_comment = False
    elif in_comment:
        (comment_part, sep, line) = line.partition('*/')
        comment.append(comment_part.strip())
    is_license = check_comment(comment, fname, comment_starts_at,
                                code_seen, nonlicense_seen)
    nonlicense_seen = nonlicense_seen or not is_license
    in_comment = False
    if line.strip() != '':
        code_seen = True
    ln += 1

for fname in sys.argv[1:]:
    if fname.startswith('./'):  
        fname = fname[2:] 
    f = open(fname) 
    lines = f.readlines() 
    f.close() 
    check_file(lines, fname)
/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */
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cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
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lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
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lib/libgss/g_rel_cred.c  
lib/libgss/g_rel_name.c  
lib/libgss/g_rel_oid_set.c  
lib/libgss/g_seal.c  
lib/libgss/g_sign.c  
lib/libgss/g_store_cred.c  
lib/libgss/g_unseal.c  
lib/libgss/g_userok.c  
lib/libgss/g_utils.c  
lib/libgss/gssd_pname_to_uid.c  
uts/common/gssapi/include/gssapi_err_generic.h  
uts/common/gssapi/include/mechglueP.h

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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
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lib/gssapi/mechglue/g_unseal.c
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lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gsssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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```
src/lib/gssapi/
```

including the following files:

```
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g_acquire_cred.c
g_canon_name.c
```
<span class="n">lib</span>/<span class="n">gssapi</span>/class/spnego/<span class="n">gssapiP_spnego</span>.h
and the initial implementation of incremental propagation, including
the following new or changed files:

- `lib/gssapi/class/spnego/spnego_mech.c`
- `include/iprop_hdr.h`
- `kadmin/server/ipropd_svc.c`
- `lib/kdb/class/iprop.x`
- `lib/kdb/class/kdb_convert.c`
- `lib/kdb/class/kdb_log.c`
- `lib/kdb/class/kdb_log.h`
- `lib/krb5/class/error_tables/kdb5_err.et`
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.. parsed-literal::

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   lib/gssapi/mechglue/g_accept_sec_context.c
   lib/gssapi/mechglue/g_acquire_cred.c
   lib/gssapi/mechglue/g_canon_name.c
   lib/gssapi/mechglue/g_compare_name.c
   lib/gssapi/mechglue/g_context_time.c
   lib/gssapi/mechglue/g_delete_sec_context.c
   lib/gssapi/mechglue/g_dup_name.c
   lib/gssapi/mechglue/g_dsp_name.c
   lib/gssapi/mechglue/g_dsp_status.c
   lib/gssapi/mechglue/g_dup_name.c
   lib/gssapi/mechglue/g_exp_sec_context.c
   lib/gssapi/mechglue/g_export_name.c
   lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

.. parsed-literal::

    include/iprop_hdr.h
    kadmin/server/ipropd_svc.c
    lib/kdb/iprop.x
    lib/kdb/kdb_convert.c
    lib/kdb/kdb_log.c
    lib/kdb/kdb_log.h
    lib/krb5/error_tables/kdb5_err.et
    slave/kpropd_rpc.c
    slave/kproplog.c

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
"src/lib/gssapi", including the following files:
lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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1.163 libkrb5-3 amd64:1.15-1+deb9u1

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It was downloaded from:

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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lib/gssapi/mechglue/g_canon_name.c
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kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
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- ${lib}/gssapi/mechglue/g_acquire_cred.c
- ${lib}/gssapi/mechglue/g_canon_name.c
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- ${lib}/gssapi/mechglue/g_delete_sec_context.c
- ${lib}/gssapi/mechglue/g_acquire_cred.c
and the initial implementation of incremental propagation, including the following new or changed files:

- `/include/iprop_hdr.h`
- `/kadmin/server`
- `/lib/gssapi/mechglue/g_rel_name.c`
- `/lib/gssapi/g_rel_oid_set.c`
- `/lib/gssapi/g_seal.c`
- `/lib/gssapi/g_sign.c`
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in `src/lib/gssapi`, including the following files:

```
lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_spnego_mech.c
```

and the initial implementation of incremental propagation, including the following new or changed files:
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */
/*
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/*
 /* .*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil .*- */
 /*

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# or implied warranty.

# This program is intended to be used by "make check-copyright". It
# checks for violations of the coding standards related to copyright
# and license statements in source code comments.

import os
import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        elif code_seen:
            warn(fname, ln, 'License after code')
        elif nonlicense_seen:
            warn(fname, ln, 'License after non-license comments')
        break
    # DB2 licenses start with '/*-' and we don't want to change them.
    if line != '' and line != '-':
        text_seen = True
    return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c:' in lines[ln]:
        ln += 1
ln += 1

# Check filename comment if present.
m = re.match(r'\*([^\*]*\*\([^\*]*\))\*\([^\*]*\)/', lines[ln])
if m:
    if m.group(1) != fname:
        warn(fname, ln, 'Wrong filename in comment')
    ln += 1

# Scan for license statements.
in_comment = False
code_seen = False
nonlicense_seen = False
for line in lines[ln:]:
    # Strip out whitespace and comments contained within a line.
    if not in_comment:
        line = re.sub(r'\*.*?\*/', '', line)
    line = line.strip()
    if not in_comment and '/*' in line:
        (line, sep, comment_part) = line.partition('/*')
        comment = [comment_part.strip()]
        comment_starts_at = ln
        in_comment = True
    elif in_comment and '*/' not in line:
        comment.append(line.lstrip('*').lstrip())
    elif in_comment:
        (comment_part, sep, line) = line.partition('*/')
        comment.append(comment_part.strip())
    is_license = check_comment(comment, fname, comment_starts_at,
                                code_seen, nonlicense_seen)
    nonlicense_seen = nonlicense_seen or not is_license
    in_comment = False
    if line.strip() != '':
        code_seen = True
        ln += 1

for fname in sys.argv[1:]:
    if fname.startswith('./'):
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)
1.164 libkrb5support0 amd64:1.15-1+deb9u1

1.164.1 Available under license:

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Version 2, June 1991

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Appendix: How to Apply These Terms to Your New Programs

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<one line to give the program's name and a brief idea of what it does.>
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If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

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This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

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<signature of Ty Coon>, 1 April 1989
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# This program is intended to be used by "make check-copyright". It checks for violations of the coding standards related to copyright and license statements in source code comments.

import os
import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    # Your code here
for line in comment:
    if not is_license and indicates_license(line):
        is_license = True
    if text_seen:
        warn(fname, ln, 'License begins after first line of comment')
    elif code_seen:
        warn(fname, ln, 'License after code')
    elif nonlicense_seen:
        warn(fname, ln, 'License after non-license comments')
    break
# DB2 licenses start with '/*-' and we don’t want to change them.
if line != '' and line != '-':
    text_seen = True
return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1
    # Check filename comment if present.
    m = re.match(r'/\* ([^ \*])( - .*)? */', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1
    # Scan for license statements.
    in_comment = False
code_seen = False
nonlicense_seen = False
for line in lines[ln:]:
    # Strip out whitespace and comments contained within a line.
    if not in_comment:
        line = re.sub(r'\*.*?\*/', '', line)
    line = line.strip()
    if not in_comment and '/*-' in line:
        (line, sep, comment_part) = line.partition('/*-
        comment = [comment_part.strip()]
        comment_starts_at = ln
        in_comment = True
    elif in_comment and '*/' not in line:
        comment.append(line.lstrip('*').lstrip())
    elif in_comment:
        (comment_part, sep, line) = line.partition('*/
        comment.append(comment_part.strip())
is_license = check_comment(comment, fname, comment_starts_at,
code_seen, nonlicense_seen)
nonlicense_seen = nonlicense_seen or not is_license
in_comment = False
eelif line.strip() != "":
    code_seen = True

In += 1

def check_file(lines, fname):
    for fname in sys.argv[1:]:
        if fname.startswith('./'):
            fname = fname[2:]
        f = open(fname)
        lines = f.readlines()
        f.close()
        check_file(lines, fname)
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lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
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lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
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lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_init.c

and the initial implementation of incremental propagation, including
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include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<title>MIT Kerberos License information &mdash; MIT Kerberos Documentation</title>
<link rel="stylesheet" href="_static/agogo.css" type="text/css" />
<link rel="stylesheet" href="_static/pygments.css" type="text/css" />
<link rel="stylesheet" href="_static/kerb.css" type="text/css" />

<script type="text/javascript">
 var DOCUMENTATION_OPTIONS = {
  URL_ROOT: "",
  VERSION: '1.12.1',
  COLLAPSE_INDEX: false,
  FILE_SUFIX: '.html',
  HAS_SOURCE: true
};
</script>
<script type="text/javascript" src="_static/jquery.js"></script>
<script type="text/javascript" src="_static/underscore.js"></script>
<script type="text/javascript" src="_static/doctools.js"></script>
<link rel="author" title="About these documents" href="about.html" />
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src/lib/gssapi/**<pre class="highlight-python">src/lib/gssapi/gssapi_err_generic.c</pre>**, including the following files:

- <tt class="docutils literal"><span class="pre">lib/gssapi/generic/gssapi_err_generic.c</span></tt>
- <tt class="docutils literal"><span class="pre">lib/gssapi/mechglue/g_accept_sec_context.c</span></tt>
- <tt class="docutils literal"><span class="pre">lib/gssapi/mechglue/g_acquire_cred.c</span></tt>
- <tt class="docutils literal"><span class="pre">lib/gssapi/mechglue/g_canon_name.c</span></tt>
- <tt class="docutils literal"><span class="pre">lib/gssapi/mechglue/g_compare_name.c</span></tt>
- <tt class="docutils literal"><span class="pre">lib/gssapi/mechglue/g_context_time.c</span></tt>
- <tt class="docutils literal"><span class="pre">lib/gssapi/mechglue/g_delete_sec_context.c</span></tt>
- <tt class="docutils literal"><span class="pre">lib/gssapi/mechglue/g_dup_name.c</span></tt>
- <tt class="docutils literal"><span class="pre">lib/gssapi/mechglue/g_exp_sec_context.c</span></tt>
- <tt class="docutils literal"><span class="pre">lib/gssapi/mechglue/g_export_name.c</span></tt>
- <tt class="docutils literal"><span class="pre">lib/gssapi/mechglue/g_glue.c</span></tt>
and the initial implementation of incremental propagation, including the following new or changed files:

```
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c
```

</div>
</div>

<p>
</p>
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in `src/lib/gssapi`, including the following files:

.. parsed-literal::

    lib/gssapi/generic/gssapi_err_generic.et
    lib/gssapi/mechglue/g_accept_sec_context.c
    lib/gssapi/mechglue/g_acquire_cred.c
    lib/gssapi/mechglue/g_canon_name.c
    lib/gssapi/mechglue/g_compare_name.c
    lib/gssapi/mechglue/g_context_time.c
    lib/gssapi/mechglue/g_delete_sec_context.c
    lib/gssapi/mechglue/g_dsp_name.c
    lib/gssapi/mechglue/g_dsp_status.c
    lib/gssapi/mechglue/g_dup_name.c
    lib/gssapi/mechglue/g_exp_sec_context.c
    lib/gssapi/mechglue/g_export_name.c
    lib/gssapi/mechglue/g_glue.c
    lib/gssapi/mechglue/g_imp_name.c
    lib/gssapi/mechglue/g_imp_sec_context.c
    lib/gssapi/mechglue/g_init_sec_context.c
    lib/gssapi/mechglue/g_initialize.c
    lib/gssapi/mechglue/g_inquire_context.c
    lib/gssapi/mechglue/g_inquire_cred.c
    lib/gssapi/mechglue/g_inquire_names.c
    lib/gssapi/mechglue/g_process_context.c
    lib/gssapi/mechglue/g_rel_buffer.c
    lib/gssapi/mechglue/g_rel_cred.c
    lib/gssapi/mechglue/g_rel_name.c
    lib/gssapi/mechglue/g_rel_oid_set.c
    lib/gssapi/mechglue/g_seal.c
    lib/gssapi/mechglue/g_sign.c
    lib/gssapi/mechglue/g_store_credential.c
    lib/gssapi/mechglue/g_unseal.c
    lib/gssapi/mechglue/g_userok.c
    lib/gssapi/mechglue/g_utils.c
    lib/gssapi/mechglue/g_verify.c
    lib/gssapi/mechglue/gssd_pname_to_uid.c
    lib/gssapi/mechglue/mglueP.h
    lib/gssapi/mechglue/oid_ops.c
    lib/gssapi/spnego/gssapiP_spnego.h
    lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:
.. parsed-literal::

   include/iprop_hdr.h
   kadmin/server/ipropd_svc.c
   lib/kdb/iprop.x
   lib/kdb/kdb_convert.c
   lib/kdb/kdb_log.c
   lib/kdb/kdb_log.h
   lib/krb5/error_tables/kdb5_err.et
   slave/kpropd_rpc.c
   slave/kproplog.c

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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/gssapiP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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1.167 libldap-2.4-2 2.4.44+dfsg-5+deb9u2

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From 74d64d0eb245ce07383abcd444c23e7438e8a083 Mon Sep 17 00:00:00 2001
From: Howard Chu <hyc@openldap.org>
Date: Wed, 28 Dec 2016 18:32:14 +0000
Subject: [PATCH] ITS#8554 kFreeBSD is like BSD

Doesn't have POSIX robust mutexes - GNU userland on BSD kernel

---
libraries/liblmdb/mdb.c | 2 +-  
1 file changed, 1 insertion(+), 1 deletion(-)

diff --git a/libraries/liblmdb/mdb.c b/libraries/liblmdb/mdb.c
index 7a181d4..23c1f00 100644
--- a/libraries/liblmdb/mdb.c
+++ b/libraries/liblmdb/mdb.c
@@ -120,7 +120,7 @@ typedef SSIZE_T ssize_t;
#include <resolv.h> /* defines BYTE_ORDER on HPUX and Solaris */
@endif

#include <resolv.h>/* defines BYTE_ORDER on HPUX and Solaris */
@endif

-#if defined(__APPLE__) || defined(BSD)
+#if defined(__APPLE__) || defined(BSD) || defined(__FreeBSD_kernel__)
 # define MDB_USE_POSIX_SEM1
 # define MDB_FDATASYNCFsync
 #elif defined(ANDROID)
 --
2.1.4

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!include "license.sdf"; plain

From 74d64d0eb245ce07383abcd444c23e7438e8a083 Mon Sep 17 00:00:00 2001
From: Howard Chu <hyc@openldap.org>
Date: Wed, 28 Dec 2016 18:32:14 +0000
Subject: [PATCH] ITS#8554 kFreeBSD is like BSD

Doesn't have POSIX robust mutexes - GNU userland on BSD kernel
---
libraries/liblmdb/mdb.c | 2 +-1 file changed, 1 insertion(+), 1 deletion(-)

diff --git a/libraries/liblmdb/mdb.c b/libraries/liblmdb/mdb.c
index 7a181d4..23c1f00 100644
--- a/libraries/liblmdb/mdb.c
+++ b/libraries/liblmdb/mdb.c
@@ -120,7 +120,7 @@ typedef SSIZE_T	ssize_t;
# include <resolv.h>/* defines BYTE_ORDER on HPUX and Solaris */
#endif
-#if defined(__APPLE__) || defined (BSD)
+#if defined(__APPLE__) || defined (BSD) || defined(__FreeBSD_kernel__)
 # define MDB_USE_POSIX_SEM1
 # define MDB_FDATASYNC
 #elif defined(ANDROID)
-#
--
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To: Stephen Frost <sfrost@debian.org>
X-Mailer: Lotus Notes Release 5.0.2a (Intl) 23 November 1999
Subject: Re: Juan C. Gomez license in OpenLDAP Source

Stephen,

"There is no restriction on modifications and derived works" on the work I did for the openldap server as long as this is consistent with the openldap license. Please forward this email to Kurt so he does the appropriate changes to the files to reflect this.

Regards, Juan
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-----
Local-Date: Thu, 05 Jun 2003 16:53:32 -0400
Date: Thu, 5 Jun 2003 16:53:32 -0400 (EDT)
From: Mark Adamson <adamson@andrew.cmu.edu>
To: Stephen Frost <sfrost@debian.org>
Subject: Re: Mark Adamson license in OpenLDAP source

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* To: Stephen Frost <sfrost@snowman.net>
* Subject: Re: OpenLDAP Licenseing issues
* From: "Kurt D. Zeilenga" <Kurt@OpenLDAP.org>
* Date: Wed, 28 May 2003 10:55:44 -0700
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Regards, Kurt

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1.168 libldap-common 2.4.44+dfsg-5+deb9u2

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******************************************************************************/
From 74d64d0eb245ce07383abcd444c23e7438e8a083 Mon Sep 17 00:00:00 2001
From: Howard Chu <hyc@openldap.org>
Date: Wed, 28 Dec 2016 18:32:14 +0000
Subject: [PATCH] ITS#8554 kFreeBSD is like BSD

Doesn't have POSIX robust mutexes - GNU userland on BSD kernel
---
libraries/liblmdb/mdb.c | 2 +- 
1 file changed, 1 insertion(+), 1 deletion(-)

diff --git a/libraries/liblmdb/mdb.c b/libraries/liblmdb/mdb.c
index 7a181d4..23c1f00 100644
--- a/libraries/liblmdb/mdb.c
+++ b/libraries/liblmdb/mdb.c
@@ -120,7 +120,7 @@ typedef SSIZE_T	ssize_t;
#include <resolv.h>	/* defines BYTE_ORDER on HPUX and Solaris */
#endif
-#if defined(__APPLE__) || defined (BSD)
+#if defined(__APPLE__) || defined (BSD) || defined(__FreeBSD_kernel__)
#define MDB_USE_POSIX_SEM	1
#define MDB_FDATASYNC		fsync
#elif defined(ANDROID)
--

2.1.4
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Date: Fri, 6 Jun 2003 10:18:52 -0700
From: Juan Gomez <juang@us.ibm.com>
To: Stephen Frost <sfrost@debian.org>
X-Mailer: Lotus Notes Release 5.0.2a (Intl) 23 November 1999
Subject: Re: Juan C. Gomez license in OpenLDAP Source
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* Date: Wed, 28 May 2003 10:55:44 -0700
* Cc: Steve Langasek <vorlon@netexpress.net>, debian-legal@lists.debian.org, openldap-devel@OpenLDAP.org
* In-reply-to: <20030528162613.GB8524@ns.snowman.net>
* Message-id: <5.2.0.9.0.20030528094229.02924780@127.0.0.1>
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#include "license.sdf"; plain
From 74d64d0eb245ce07383abcd444c23e7438e8a083 Mon Sep 17 00:00:00 2001
From: Howard Chu <hyc@openldap.org>
Date: Wed, 28 Dec 2016 18:32:14 +0000
Subject: [PATCH] ITS#8554 kFreeBSD is like BSD

Doesn't have POSIX robust mutexes - GNU userland on BSD kernel

---
libraries/liblmdb/mdb.c | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)
diff --git a/libraries/liblmdb/mdb.c b/libraries/liblmdb/mdb.c
index 7a181d4..23c1f00 100644
--- a/libraries/liblmdb/mdb.c
+++ b/libraries/liblmdb/mdb.c
@@ -120,7 +120,7 @@ typedef SSIZE_T ssize_t;
#include <resolv.h> /* defines BYTE_ORDER on HPUX and Solaris */
#endif
-#if defined(__APPLE__) || defined (BSD)
+#if defined(__APPLE__) || defined (BSD) || defined(__FreeBSD_kernel__)
  #define MDB_USE_POSIX_SEM 1
  #define MDB_FDATASYNC fsync
  #elif defined(ANDROID)
--
2.1.4
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Local-Date: Fri, 06 Jun 2003 13:18:52 -0400
Date: Fri, 6 Jun 2003 10:18:52 -0700
From: Juan Gomez <juang@us.ibm.com>
To: Stephen Frost <sfrost@debian.org>
X-Mailer: Lotus Notes Release 5.0.2a (Intl) 23 November 1999
Subject: Re: Juan C. Gomez license in OpenLDAP Source

Stephen,

"There is no restriction on modifications and derived works" on the work I
did for the openldap server as long as this is consistent with the openldap
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Regards, Juan

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Local-Date: Thu, 05 Jun 2003 16:53:32 -0400
Date: Thu, 5 Jun 2003 16:53:32 -0400 (EDT)
From: Mark Adamson <adamson@andrew.cmu.edu>
To: Stephen Frost <sfrost@debian.org>
Subject: Re: Mark Adamson license in OpenLDAP source

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---
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---
* To: Stephen Frost <s frost@snowman.net>
* Subject: Re: OpenLDAP Licenseing issues
* From: "Kurt D. Zeilenga" <Kurt@OpenLDAP.org>
* Date: Wed, 28 May 2003 10:55:44 -0700
* Cc: Steve Langasek <vorlon@netexpress.net>, debian-legal@lists.debian.org, openldap-devel@OpenLDAP.org
* In-reply-to: <20030528162613.GB8524@ns.snowman.net>
* Message-id: <5.2.0.9.0.20030528094229.02924780@127.0.0.1>
* Old-return-path: <Kurt@OpenLDAP.org>

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Regards, Kurt

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That's all there is to it!

1.179 libncurses5:amd64 6.0+20161126-1+deb9u2

1.179.1 Available under license:

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1.189 libnpth0 amd64:1.3-1

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1.201 libpcre3:amd64 2:8.39-3

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------------

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THE BASIC LIBRARY FUNCTIONS

---------------------------

Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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PCRE JUST-IN-TIME COMPILATION SUPPORT

-------------------------------

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1.203 libperl5.24 5.24.1-3+deb9u4
1.203.1 Available under license :

---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>''
- "Development questions, bug reports, and patches should be sent to the\n Module-Build mailing list at <module-build@perl.org>.'"
build_requires:
File::Temp: 0.15
Test::Harness: 3.16
Test::More: 0.49
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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The End
#!/perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use TestInit;
use strict;
use Config;
BEGIN { require 'test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so # that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}
sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = ";
    my $copyright_msg = <$readme>;

    my ($year) = $copyright_msg =~ /.*(\d{4,})/s
        or die "Year not found in README copyright message '$copyright_msg'";

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
        or die "Copyright statement not found in perl -v output '$output'";

    $year;
}

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Upstream-Name: perl
Source: http://www.perl.com/CPAN/src/5.0/
Comment:
This package was debianized by Brendan O'Dea <bod@debian.org> on Thu, 17 Aug 2000 16:10:54 +1000.

Upstream Authors:

  Larry Wall et. al. (see /usr/share/doc/perl/AUTHORS).

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ext/Fcntl/*
ext/FileCache/*
ext/GDBM_File/*
ext/IPC-Open2/*
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ext/NDBM_File/*
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cpan/CPAN-Meta/lib/CPAN/Meta/History/Meta_1_2.pod
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cpan/Locale-Maketext-Simple/t/po_with_i_default/fr.po
cpan/Locale-Maketext-Simple/t/po_with_i_default/en.po
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dist/I18N-Collate/*
dist/Safe/*
ext/Fcntl/*
ext/FileCache/*
ext/GDBM_File/*
ext/IPC-Open2/*
ext/IPC-Open3/*
ext/NDBM_File/*
ext/ODBM_File/*
ext/Opcode/*
ext/PerlIO-encoding/*
ext/PerlIO-scalar/*
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cpan/podlators/t/lib/Test/RRAPM

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dist/Safe/*
ext/Fcntl/*
ext/FileCache/*
ext/GDBM_File/*
ext/IPC-Open2/*
ext/IPC-Open3/*
ext/NDBM_File/*
ext/ODBM_File/*
ext/Opcode/*
ext/PerlIO-encoding/*
ext/PerlIO-scalar/*
ext/PerlIO-via/*
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ext/re/*
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Glenn Randers-Pehrson
glenrp at users.sourceforge.net
January 5, 2017

1.205 libprocps6 2:3.3.12-3+deb9u1
1.205.1 Available under license:

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Upstream-Name: procps-ng
Source: https://gitlab.com/procps-ng/procps

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1.206 libpsl5 0.17.0-3
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Upstream-Name: libpsl
Source: https://github.com/rockdaboot/libpsl

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Files: src/psl-make-dafsa src/lookup_string_in_fixed_set.c
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1.207 libpython-stdlib 2.7.13-2

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This package was put together by Klee Dienes <klee@debian.org> from
sources from ftp.python.org:/pub/python, based on the Debianization by
the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and
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Current maintainer is Matthias Klose <doko@debian.org> until the final
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--------------------------------------------------------------

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=================================

Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC. Guido remains Python’s
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
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non-profit organization created specifically to own Python-related
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dh_python2, pycompile, pyclean and debpython module:

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1.208 libpython2.7-minimal 2.7.13-2+deb9u2

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==============

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of
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Mersenne Twister
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The `_random` module includes code based on a download from `http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html`. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26. Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)` or `init_by_array(init_key, key_length)`.

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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp

Sockets
-------

The `socket' module uses the functions, `getaddrinfo', and
`getnameinfo', which are coded in separate source files from the WIDE

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Modified by Jack Jansen, CWI, July 1995:
  - Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us/) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see
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Mersenne Twister

The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
email: m-mat@math.sci.hiroshima-u.ac.jp (remove space)

Sockets
-------

The `socket` module uses the functions, `getaddrinfo`, and `getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/.

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MD5 message digest algorithm

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L. Peter Deutsch  
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at  
http://www.ietf.org/rfc/rfc1321.txt
The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
-----------------------------

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-----------------

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----------------------------------

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

--------------------------

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test_epoll

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Select kqueue
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--------------

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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Mersenne Twister
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The \_random\' module includes code based on a download from `http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html`. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init\_genrand(seed)
or init_by_array(init_key, key_length).

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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp

Sockets
-------

The `socket' module uses the functions, `getaddrinfo', and `getnameinfo', which are coded in separate source files from the WIDE Project, `http://www.wide.ad.jp/about/index.html'.

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with python standard

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1.217 libselinux1 amd64:2.6-3+b3

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1.218 libsemanage-common 2.6-2

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1.226 libss2 1.43.4-2

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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB-pic_FLAG = -fpic

image::$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJs))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
```
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1.230 libstdc++6 6.3.0-18+deb9u1

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Version 3.1, 31 March 2009

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.ic1.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlef(s@detlef$s@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility.  (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)

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# 128 bit long double support was introduced with GCC 4.6.0 for FreeBSD.
# These lines make the symbols to get a @ GCC_4.6.0.

%exclude {
  __addtf3
  __copysigntf3
  __divtc3
  __divtf3
  __eqtf2
  __extenddftf2
  __extendsftf2
  __extendxtf2
  __fabsf2
  __fixtfdi
  __fistf	i
  __fixunstfidi
  __fixunstfisi
  __fixunstfti
  __floatdfi
  __floatsi
  __floatti
  __floatundf
  __floatunsf
  __floatuntf
  __getf
  __gtf2
  __letf2
  __ltf2
  __multc3
  __multf3
  __negtf2
  __netf2
  __powitf2
  __subtf3
  __trunctdf3
  __trunctsf3
  __trunctxf3
  __unordf2
}

GCC_4.6.0 {
  __addtf3
  %ifndef __x86_64__
  __copysignf3
  %endif
__divtc3
__divt3
__eqtf2
__extenddf2f
__extendsf2
__extendxft2
%ifndef __x86_64__
__fabstf2
%endif
__fixtfdi
__fixtfsi
%ifdef __x86_64__
__fixtfti
%endif
__fixunstfdi
__fixunstfsi
%ifdef __x86_64__
__fixunstfti
%endif
__floatditf
__floatsitf
%ifdef __x86_64__
__floattitf
%endif
__floatunditf
__floatunsitf
%ifdef __x86_64__
__floatuntitf
%endif
__getf2
__gttf2
__letf2
__lftf2
__multc3
__multf3
__negtf2
__netf2
__powitf2
__subtf3
__trunctdf2f
__trunctfsf2
__trunctxtf2
__unordtf2
}

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```

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@man end
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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1.238 libwrap0 7.6.q-26

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1.240 libx11-data 2:1.6.4-3

1.241 libxau6 1:1.0.8-1

1.242 libxcb1:amd64 1.12-1

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1.244 libxext6:amd64 2:1.3.3-1+b2

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1.245 libxi6 amd64:2:1.7.9-1

1.246 libxml2 2.9.4+dfsg1-2.2+deb9u2

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Upstream-Contact: Lloyd Hilaiel <me@lloyd.io>
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```c
#ifndef __LICENSE_H
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static inline int license_is_gpl_compatible(const char *license)
{
    return (strcmp(license, "GPL") == 0
            || strcmp(license, "GPL v2") == 0
            || strcmp(license, "GPL and additional rights") == 0
            || strcmp(license, "Dual BSD/GPL") == 0
            || strcmp(license, "Dual MIT/GPL") == 0
            || strcmp(license, "Dual MPL/GPL") == 0);
}
#endif
```

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```
# Security configuration
#

menu "Security options"

source security/keys/Kconfig

config SECURITY_DMESG_RESTRICT
bool "Restrict unprivileged access to the kernel syslog"
default n
help
  This enforces restrictions on unprivileged users reading the kernel syslog via dmesg(8).

  If this option is not selected, no restrictions will be enforced unless the dmesg_restrict sysctl is explicitly set to (1).

  If you are unsure how to answer this question, answer N.

config SECURITY_PERF_EVENTS_RESTRICT
bool "Restrict unprivileged use of performance events"
depends on PERF_EVENTS
help
  If you say Y here, the kernel.perf_event_paranoid sysctl will be set to 3 by default, and no unprivileged use of the perf_event_open syscall will be permitted unless it is changed.

config SECURITY
bool "Enable different security models"
depends on SYSFS
depends on MULTIUSER
help
  This allows you to choose different security modules to be configured into your kernel.
```
If this option is not selected, the default Linux security model will be used.

If you are unsure how to answer this question, answer N.

config PAGE_TABLE_ISOLATION
bool "Remove the kernel mapping in user mode"
default y
depends on X86_64 && SMP
help
This enforces a strict kernel and user space isolation, in order to close hardware side channels on kernel address information.

If you are unsure how to answer this question, answer Y.

config SECURITYFS
bool "Enable the securityfs filesystem"
help
This will build the securityfs filesystem. It is currently used by the TPM bios character driver and IMA, an integrity provider. It is not used by SELinux or SMACK.

If you are unsure how to answer this question, answer N.

config SECURITY_NETWORK
bool "Socket and Networking Security Hooks"
depends on SECURITY
help
This enables the socket and networking security hooks.
If enabled, a security module can use these hooks to implement socket and networking access controls.
If you are unsure how to answer this question, answer N.

config SECURITY_NETWORK_XFRM
bool "XFRM (IPSec) Networking Security Hooks"
depends on XFRM && SECURITY_NETWORK
help
This enables the XFRM (IPSec) networking security hooks.
If enabled, a security module can use these hooks to implement per-packet access controls based on labels derived from IPSec policy. Non-IPSec communications are designated as unlabelled, and only sockets authorized to communicate unlabelled data can send without using IPSec.
If you are unsure how to answer this question, answer N.

config SECURITY_PATH
bool "Security hooks for pathname based access control"
depends on SECURITY
help
  This enables the security hooks for pathname based access control.
  If enabled, a security module can use these hooks to
  implement pathname based access controls.
  If you are unsure how to answer this question, answer N.

config INTEL_TXT
bool "Enable Intel(R) Trusted Execution Technology (Intel(R) TXT)"
depends on HAVE_INTEL_TXT
help
  This option enables support for booting the kernel with the
  Trusted Boot (tboot) module. This will utilize
  Intel(R) Trusted Execution Technology to perform a measured launch
  of the kernel. If the system does not support Intel(R) TXT, this
  will have no effect.

  Intel TXT will provide higher assurance of system configuration and
  initial state as well as data reset protection. This is used to
  create a robust initial kernel measurement and verification, which
  helps to ensure that kernel security mechanisms are functioning
  correctly. This level of protection requires a root of trust outside
  of the kernel itself.

  Intel TXT also helps solve real end user concerns about having
  confidence that their hardware is running the VMM or kernel that
  it was configured with, especially since they may be responsible for
  providing such assurances to VMs and services running on it.

  See <http://www.intel.com/technology/security/> for more information
  about Intel(R) TXT.
  See <http://tboot.sourceforge.net> for more information about tboot.
  See Documentation/intel_txt.txt for a description of how to enable
  Intel TXT support in a kernel boot.

  If you are unsure as to whether this is required, answer N.

config LSM_MMAP_MIN_ADDR
int "Low address space for LSM to protect from user allocation"
depends on SECURITY && SECURITY_SELINUX
default 32768 if ARM || (ARM64 && COMPAT)
default 65536
help
  This is the portion of low virtual memory which should be protected
  from userspace allocation. Keeping a user from writing to low pages
  can help reduce the impact of kernel NULL pointer bugs.
For most ia64, ppc64 and x86 users with lots of address space a value of 65536 is reasonable and should cause no problems. On arm and other archs it should not be higher than 32768. Programs which use vm86 functionality or have some need to map this low address space will need the permission specific to the systems running LSM.

config HAVE_HARDENED_USERCOPY_ALLOCATOR
bool
help
The heap allocator implements __check_heap_object() for validating memory ranges against heap object sizes in support of CONFIG_HARDENED_USERCOPY.

config HAVE_ARCH_HARDENED_USERCOPY
bool
help
The architecture supports CONFIG_HARDENED_USERCOPY by calling check_object_size() just before performing the userspace copies in the low level implementation of copy_to_user() and copy_from_user().

config HARDENED_USERCOPY
bool "Harden memory copies between kernel and userspace"
depends on HAVE_ARCH_HARDENED_USERCOPY
depends on HAVE_HARDENED_USERCOPY_ALLOCATOR
select BUG
help
This option checks for obviously wrong memory regions when copying memory to/from the kernel (via copy_to_user() and copy_from_user() functions) by rejecting memory ranges that are larger than the specified heap object, span multiple separately allocates pages, are not on the process stack, or are part of the kernel text. This kills entire classes of heap overflow exploits and similar kernel memory exposures.

config HARDENED_USERCOPY_PAGESPAN
bool "Refuse to copy allocations that span multiple pages"
depends on HARDENED_USERCOPY
depends on EXPERT
help
When a multi-page allocation is done without __GFP_COMP, hardened usercopy will reject attempts to copy it. There are, however, several cases of this in the kernel that have not all been removed. This config is intended to be used only while trying to find such users.

source security/selinux/Kconfig
source security/smack/Kconfig
source security/tomoyo/Kconfig
source security/apparmor/Kconfig
source security/loadpin/Kconfig
source security/yama/Kconfig

source security/integrity/Kconfig

choice
prompt "Default security module"
default DEFAULT_SECURITY_SELINUX if SECURITY_SELINUX
default DEFAULT_SECURITY_SMACK if SECURITY_SMACK
default DEFAULT_SECURITY_TOMOYO if SECURITY_TOMOYO
default DEFAULT_SECURITY_APPARMOR if SECURITY_APPARMOR
default DEFAULT_SECURITY_DAC

help
Select the security module that will be used by default if the
kernel parameter security= is not specified.

config DEFAULT_SECURITY_SELINUX
bool "SELinux" if SECURITY_SELINUX=y

config DEFAULT_SECURITY_SMACK
bool "Simplified Mandatory Access Control" if SECURITY_SMACK=y

config DEFAULT_SECURITY_TOMOYO
bool "TOMOYO" if SECURITY_TOMOYO=y

config DEFAULT_SECURITY_APPARMOR
bool "AppArmor" if SECURITY_APPARMOR=y

config DEFAULT_SECURITY_DAC
bool "Unix Discretionary Access Controls"

endchoice

cfg DEFAULT_SECURITY
string
default "selinux" if DEFAULT_SECURITY_SELINUX
default "smack" if DEFAULT_SECURITY_SMACK
default "tomoyo" if DEFAULT_SECURITY_TOMOYO
default "apparmor" if DEFAULT_SECURITY_APPARMOR
default "" if DEFAULT_SECURITY_DAC

endmenu
Contributors
============
.. note::

This documentation is outdated. There are several other DVB contributors that aren't listed below.

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  single nxt200x frontend driver.

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From: Sebastian Andrzej Siewior <bigeasy@linutronix.de>
Date: Fri, 10 Feb 2017 18:21:04 +0100
Alex Goins reported that mutex_destroy() on RT will force a GPL only symbol which won't link and therefore fail on a non-GPL kernel module. This does not happen on !RT and is a regression on RT which we would like to avoid. I try here the easy thing and to not use rt_mutex_destroy() if CONFIG_DEBUG_MUTEXES is not enabled.

Reported-by: Alex Goins <agoins@nvidia.com>
Signed-off-by: Sebastian Andrzej Siewior <bigeasy@linutronix.de>

---

Subject: [PATCH 181/351] rt: Drop mutex_disable() on !DEBUG configs and the GPL suffix from export symbol
Origin: https://git.kernel.org/cgit/linux/kernel/git/rt/linux-stable-rt.git/commit?id=a1e4dad96bb4a5eb2acc611ba0120ce5f98c1261d

Alex Goins reported that mutex_destroy() on RT will force a GPL only symbol which won't link and therefore fail on a non-GPL kernel module. This does not happen on !RT and is a regression on RT which we would like to avoid. I try here the easy thing and to not use rt_mutex_destroy() if CONFIG_DEBUG_MUTEXES is not enabled.

Reported-by: Alex Goins <agoins@nvidia.com>
Signed-off-by: Sebastian Andrzej Siewior <bigeasy@linutronix.de>

---

Subject: [PATCH 259/351] ARM: enable irq in translation/section permission fault handlers
Origin: https://git.kernel.org/cgit/linux/kernel/git/rt/linux-stable-rt.git/commit?id=785fbb8d805c0d1f57abd5b2726221ea83b2faec

Probably happens on all ARM, with
This simple program...

```c
int main() {
    *(char*)0xc0001000) = 0;
}
```

[ 512.742724] BUG: sleeping function called from invalid context at kernel/rtmutex.c:658
[ 512.743000] in_atomic(): 0, irq_disable(): 128, pid: 994, name: a
[ 512.743217] INFO: lockdep is turned off.
[ 512.743360] irq event stamp: 0
[ 512.743482] [512.743558] hardirqs last enabled at (0): [<null>] (null)
[ 512.743714] hardirqs last disabled at (0): [<c0426370>] copy_process+0xb0/0x11c0
[ 512.744013] softirqs last enabled at (0): [<c0426370>] copy_process+0xb0/0x11c0
[ 512.744303] softirqs last disabled at (0): [<null>] (null)
[ 512.744631] [<c041872c>] (unwind_backtrace+0x0/0x104)
[ 512.745001] [<c09af0c4>] (dump_stack+0x20/0x24)
[ 512.745355] [<c0462490>] __might_sleep+0x10c/0x1e0
[ 512.745717] [<c0462490>] __might_sleep+0x10c/0x1e0
[ 512.746073] [<c0441bf0>] (do_force_sig_info+0x34/0xf0)
[ 512.746457] [<c0442668>] (force_sig_info+0x18/0x1c)
[ 512.746829] [<c041d880>] __do_user_fault+0x9c/0x9d)
[ 512.747185] [<c041d938>] (do_sect_fault+0x40/0x48)
[ 512.747536] [<c041d990>] (do_sect_fault+0x40/0x48)
[ 512.747898] [<c040841c>] (do_DataAbort+0x40/0xa0)
[ 512.748181] Exception stack(0xecaa1fb0 to 0xecaa1ff8)

Oxc0000000 belongs to kernel address space, user task can not be allowed to access it. For above condition, correct result is that test case should receive a segment fault and exits but not stacks.

The root cause is commit 02fe2845d6a8 ("avoid enabling interrupts in prefetch/data abort handlers"), it deletes irq enable block in Data abort assemble code and move them into page/breakpiont/alignment fault handlers instead. But author does not enable irq in translation/section permission fault handlers. ARM disables irq when it enters exception/ interrupt mode, if kernel doesn't enable irq, it would be still disabled during translation/section permission fault.

We see the above splat because do_force_sig_info is still called with IRQs off, and that code eventually does a:

```c
spin_lock_irqsave(&t->sighand->siglock, flags);
```

As this is architecture independent code, and we've not seen any other need for other arch to have the siglock converted to raw lock, we can
conclude that we should enable irq for ARM translation/section permission exception.

Signed-off-by: Yadi.hu <yadi.hu@windriver.com>
Signed-off-by: Sebastian Andrzej Siewior <bigeasy@linutronix.de>
---
arch/arm/mm/fault.c | 6 ++++++
1 file changed, 6 insertions(+)
diff --git a/arch/arm/mm/fault.c b/arch/arm/mm/fault.c
index f7861dc83182..ce47dfe25fb0 100644
--- a/arch/arm/mm/fault.c
+++ b/arch/arm/mm/fault.c
@@ -433,6 +433,9 @@ do_translation_fault(unsigned long addr, unsigned int fsr,
if (addr < TASK_SIZE)
    return do_page_fault(addr, fsr, regs);
+	if (interrupts_enabled(regs))
    local_irq_enable();
    +
    if (user_mode(regs))
    goto bad_area;

@@ -500,6 +503,9 @@ do_translation_fault(unsigned long addr, unsigned int fsr,
static int
do_sect_fault(unsigned long addr, unsigned int fsr, struct pt_regs *regs)
{
+    if (interrupts_enabled(regs))
+        local_irq_enable();
+    do_bad_area(addr, fsr, regs);
    return 0;
}

2.16.1
From: Matthew Garrett <mjg59@srcf.ucam.org>
Date: Fri, 9 Aug 2013 17:58:15 -0400
Subject: [01/18] Add BSD-style securelevel support
Origin: https://github.com/mjg59/linux/commit/058b8ddfe86dc90268f6d0f0fced29ec46f1fafa

Provide a coarse-grained runtime configuration option for restricting
userspace's ability to modify the running kernel.

Signed-off-by: Matthew Garrett <mjg59@srcf.ucam.org>
---
Documentation/security/securelevel.txt | 23 +++++++
include/linux/security.h | 8 +++
The Linux securelevel interface (inspired by the BSD securelevel interface) is a runtime mechanism for configuring coarse-grained kernel-level security restrictions. It provides a runtime configuration variable at /sys/kernel/security/securelevel which can be written to by root. The following values are supported:

-1: Permanently insecure mode. This level is equivalent to level 0, but once set cannot be changed.

0: Insecure mode (default). This level imposes no additional kernel restrictions.

1: Secure mode. If set, userspace will be unable to perform direct access to PCI devices, port IO access, access system memory directly via /dev/mem and /dev/kmem, perform kexec_load(), use the userspace software suspend mechanism, insert new ACPI code at runtime via the custom_method interface or modify CPU MSRs (on x86). Certain drivers may also limit additional interfaces.

Once the securelevel value is increased, it may not be decreased.

```
--- /dev/null
+++ b/Documentation/security/securelevel.txt
@@ -0,0 +1,23 @@
+Linux securelevel interface
+-----------------------------
+
+The Linux securelevel interface (inspired by the BSD securelevel interface) is a runtime mechanism for configuring coarse-grained kernel-level security restrictions. It provides a runtime configuration variable at /sys/kernel/security/securelevel which can be written to by root. The following values are supported:
+
+-1: Permanently insecure mode. This level is equivalent to level 0, but once set cannot be changed.
+
+0: Insecure mode (default). This level imposes no additional kernel restrictions.
+
+1: Secure mode. If set, userspace will be unable to perform direct access to PCI devices, port IO access, access system memory directly via /dev/mem and /dev/kmem, perform kexec_load(), use the userspace software suspend mechanism, insert new ACPI code at runtime via the custom_method interface or modify CPU MSRs (on x86). Certain drivers may also limit additional interfaces.
+
+Once the securelevel value is increased, it may not be decreased.
--- a/include/linux/security.h
+++ b/include/linux/security.h
@@ -1589,6 +1589,14 @@ static inline void security_audit_rule_f
#endif /* CONFIG_SECURITY */
#endif /* CONFIG_AUDIT */
+ifdef CONFIG_SECURITY_SECURELEVEL
+extern int get_securelevel(void);
+extern int set_securelevel(int new_securelevel);
+else
+static inline int get_securelevel(void) { return 0; }
+static inline int set_securelevel(int new_securelevel) { return 0; }
+#endif /* CONFIG_SECURITY_SECURELEVEL */
+
+ifdef CONFIG_SECURITYFS
```
extern struct dentry *securityfs_create_file(const char *name, umode_t mode,  
--- a/security/Kconfig  
+++ b/security/Kconfig  
@@ -93,6 +93,14 @@ config SECURITY_PATH  
implement pathname based access controls.  
If you are unsure how to answer this question, answer N.

+config SECURITY_SECURELEVEL  
+  bool "Securelevel kernel restriction interface"  
+depends on SECURITY  
+help  
+  This enables support for adding a set of additional kernel security  
+  restrictions at runtime. See Documentation/security/securelevel.txt  
+  for further information.  
+
+config INTEL_TXT  
bool "Enable Intel(R) Trusted Execution Technology (Intel(R) TXT)"  
depends on HAVE_INTEL_TXT  
--- a/security/Makefile  
+++ b/security/Makefile  
@@ -16,6 +16,7 @@ obj-$(CONFIG_MMU)	+= min_addr.o  
# Object file lists  
obj-$(CONFIG_SECURITY)	+= security.o  
obj-$(CONFIG_SECURITYFS)	+= inode.o  
+obj-$(CONFIG_SECURITY_SECURELEVEL)	+= securelevel.o  
obj-$(CONFIG_SECURITY_SELINUX)	+= selinux/  
obj-$(CONFIG_SECURITY_SMACK)	+= smack/  
obj-$(CONFIG_AUDIT)	+= lsm_audit.o  
--- /dev/null  
+++ b/security/securelevel.c  
@@ -0,0 +1,116 @@  
+/*  
+   * securelevel.c - support for generic kernel lockdown  
+   *  
+   * Copyright Nebula, Inc <mjg59@srcf.ucam.org>  
+   *  
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+   * it under the terms of the GNU General Public License version 2 as  
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+   *  
+   */  
+
+/#include <linux/fs.h>  
+/#include <linux/init.h>  
+/#include <linux/security.h>  
+/#include <linux/uaccess.h>  
+
static int securelevel;
+
static DEFINE_SPINLOCK(securelevel_lock);
+
#define MAX_SECURELEVEL 1
+
int get_securelevel(void)
+
{ return securelevel;
 +
EXPORT_SYMBOL(get_securelevel);
+
int set_securelevel(int new_securelevel)
+
{ int ret = 0;
 +
+spin_lock(&securelevel_lock);
 +
+if ((securelevel == -1) || (new_securelevel < securelevel) ||
 + (new_securelevel > MAX_SECURELEVEL)) {
+ret = -EINVAL;
+goto out;
 +}
 +
securelevel = new_securelevel;
+out:
+spin_unlock(&securelevel_lock);
+return ret;
 +
EXPORT_SYMBOL(set_securelevel);
+
static ssize_t securelevel_read(struct file *filp, char __user *buf,
+size_t count, loff_t *ppos)
+
{ char tmpbuf[12];
+ssize_t length;
+
+length = scnprintf(tmpbuf, sizeof(tmpbuf), "%d", securelevel);
+return simple_read_from_buffer(buf, count, ppos, tmpbuf, length);
 +}
 +
static ssize_t securelevel_write(struct file *file, const char __user *buf,
+size_t count, loff_t *ppos)
+
{ char *page = NULL;
+ssize_t length;
+int new_securelevel;
+
length = -ENOMEM;
if (count >= PAGE_SIZE)
goto out;
+
length = -EINVAL;
if (*ppos != 0)
goto out;
+
length = -ENOMEM;
page = (char *)get_zeroed_page(GFP_KERNEL);
if (!page)
goto out;
+
length = -EFAULT;
if (copy_from_user(page, buf, count))
goto out;
+
length = -EINVAL;
if (sscanf(page, "%d", &new_securelevel) != 1)
goto out;
+
length = set_securelevel(new_securelevel);
if (length)
goto out;
+
length = count;
out:
free_page((unsigned long) page);
return length;
}
+
+static const struct file_operations securelevel_fops = {
+ .read = securelevel_read,
+ .write = securelevel_write,
+ .llseek = generic_file_llseek,
+ };
+
+static __init int setup_securelevel(void)
+
+{struct dentry *securelevel_file;
+ securelevel_file = securityfs_create_file("securelevel",
+ S_IWUSR | S_IRUGO,
+ NULL, NULL,
+ &securelevel_fops);
+ if (IS_ERR(securelevel_file))
+ return PTR_ERR(securelevel_file);
The 'perf' tool is dynamically linked with the Python interpreter, which is itself dynamically linked with OpenSSL, which is not GPL-compatible. However, since perf itself does not link with or use OpenSSL, we believe that this indirect linking does not require additional permissions beyond the GPL.

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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
c) Accompany it with the information you received as to the offer
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received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
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operating system on which the executable runs, unless that component
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Linus Torvalds

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 *
 * Linux driver for the IDT77201 NICStAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire
 * SDU, and leave <small_buffer_data> bytes empty at the start. Then
 * copy small buffer contents to head of large buffer.
 * Trick is to avoid fragmenting Linux, due to need for a lot of large
 * buffers. This is done by 2 things:
 * 1) skb->destructor / skb->atm.recycle_buffer
 * combined, allow nicstar_free_rx_skb to be called to
 * recycle large data buffers
 * 2) skb_clone of received buffers
 * See nicstar_free_rx_skb and linearize_buffer for implementation
 * details.

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M. Welsh, 6 July 1996

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{
    return (strcmp(license, "GPL") == 0
            || strcmp(license, "GPL v2") == 0
            || strcmp(license, "GPL and additional rights") == 0
            || strcmp(license, "Dual BSD/GPL") == 0
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}

#endif
```

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============

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Upstream source http://invisible-island.net/ncurses/ncurses.html
This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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1.261 ncurses-bin 6.0+20161126-1+deb9u2
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Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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-- $Id: COPYING,v 1.4 2016/01/02 20:24:37 tom Exp $
Upstream source http://invisible-island.net/ncurses/ncurses-examples.html

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/* .* .*- Mode: Text -*. */

copyright = {
date = "1992-2017";
owner = "The University of Delaware and Network Time Foundation";
eaddr = "http://bugs.ntp.org, bugs@ntp.org";
type = ntp;
};

long-opts;
config-header = config.h;
environrc;
no-misuse-usage;
version-proc = ntpOptionPrintVersion;

version = `eval VERSION=\`sed -e 's/.*\[/\[/ -e 's/\]\].*\]/ < ../sntp/m4/version.m4\`
[ -z "$VERSION" ] && echo "Cannot determine VERSION" && kill -TERM $AG_pid
echo "$VERSION";

version-value = ";*/ Don't use -v as a shortcut for --version */

/*
 * HMS: man pages already have this, and texi pages can use the
 * values in sntp/include/version.texi .
 */
// doc-sub = {
//     sub-name = version;
//     sub-text = 's/#VERSION#/<<version>>/g';
// };
<html>
<head>
<meta http-equiv="content-type" content="text/html;charset=iso-8859-1">
<title>Copyright Notice</title>
<!-- Changed by: Harlan Stenn, 10-Mar-2014 -->
<link href="scripts/style.css" type="text/css" rel="stylesheet">
</head>
<body>
<h3>Copyright Notice</h3>
<p>Last update:
<!-- #BeginDate format:En2m -->2-Jan-2017  11:58<!-- #EndDate -->
<br clear="left">
</p>
<hr>
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**********************************************************************


The following individuals contributed in part to the Network Time Protocol Distribution Version 4 and are acknowledged as authors of this work.

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- Mark Andrews <mailto:mark_andrews@isc.org>: Leitch atomic clock controller
- Bernd Altmeier <mailto:altmeier@atsoft.de>: hopf Elektronik serial line and PCI-bus devices
- Viraj Bais <mailto:vbais@mailman1.intel.com>: and Clayton Kirkwood <mailto:kirkwood@striderfm.intel.com>: port to WindowsNT 3.5
- Michael Barone <mailto:michael.barone@lmco.com>: GPSVME fixes
- Karl Berry <mailto:karl@owl.HQ.ileaf.com>: syslog to file option
- Greg Brackley <mailto:greg.brackley@bigfoot.com>: Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
- Marc Brett <mailto:Marc.Brett@westgeo.com>: Magnavox GPS clock driver
- Piete Brooks <mailto:Piete.Brooks@cl.cam.ac.uk>: MSF clock driver, Trimble PARSE support
- Nelson B Bolyard <mailto:nelson@bolyard.me>: update and complete broadcast and crypto features in sntp
- Jean-Francois Boudreault <mailto:Jean-Francois.Boudreault@viagenie.qc.ca>: IPv6 support
- Reg Clemens <mailto:reg@dwf.com>: Oncore driver (Current maintainer)
- Steve Clift <mailto:clift@ml.csiro.au>: OMEGA clock driver
- Casey Crellin <mailto:casey@csc.co.za>: vxWorks (Tornado) port and help with target configuration
- Sven Dietrich <mailto:sven_dietrich@trimble.com>: Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port
- John A. Dundas III <mailto:dundas@salt.jpl.nasa.gov>: Apple A/UX port
- Torsten Duwe <mailto:duwe@immd4.informatik.uni-erlangen.de>: Linux port
- Dennis Ferguson <mailto:dennis@mrbill.canet.ca>: foundation code for NTP Version 2 as specified in RFC-1119
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<li><a href="http://www4.informatik.uni-erlangen.de/~kardel">Frank Kardel</a> <a href="mailto:kardel%20%28at%20ntp%20%28dot%20org"></a> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling</li>
<li><a href="mailto:%20kuehn@ntp.org">Johannes Maximilian Kuehn <kuehn@ntp.org></a> Rewrote <tt>sntp</tt> to comply with NTPv4 specification, <tt>ntpq saveconfig</tt></li>
<li><a href="mailto:%20lindholm@ucs.ubc.ca">George Lindholm <lindholm@ucs.ubc.ca></a> SunOS 5.1 port</li>
<li><a href="mailto:%20mills@udel.edu">David L. Mills <mills@udel.edu></a> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36</li>
<li><a href="mailto:%20moeller@gwdgv1.dnet.gwdg.de">Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de></a> VMS port</li>
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<li><a href="mailto:%20mrapple@quack.kfu.com">Nick Sayer <mrapple@quack.kfu.com></a> SunOS streams modules
Saved a lot of space on the stuff in the html/pic/subdirectory.

Ray Schnitzler <schnitz@unipress.com> UnixWare1 port

Michael Shields <shields@tembel.org> USNO clock driver

Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver

Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)

Kenneth Stone <ken@sdd.hp.com> HP-UX port

Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support

Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver

Brian Utterback <brian.utterback@oracle.com> General codebase, Solaris issues

Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support

Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver

Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD
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<li><a href="mailto:%20mark_andrews@isc.org">Mark Andrews <mark_andrews@isc.org></a> Leitch atomic clock controller</li>
<li><a href="mailto:%20altmeier@atlsoft.de">Bernd Altmeier <altmeier@atlsoft.de></a> hopf Elektronik serial
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</tbody>
</table>
Open Source Used In Open Source Used in Managed Services Accelerator 3.5.1

- PARSE: (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling

- Johannes Maximilian Kuehn (<kuehn@ntp.org>) Rewrote ntp to comply with NTPv4 specification, ntp saveconfig

- William L. Jones (<jones@hermes.chpc.utexas.edu>) RS/6000 AIX modifications, HPUX modifications

- Dave Katz (<dkatz@cisco.com>) RS/6000 AIX port

- Craig Leres (<leres@ee.lbl.gov>) 4.4BSD port, ppsclock, Magnavox GPS clock driver

- George Lindholm (<lindholm@ucs.ubc.ca>) SunOS 5.1 port

- Louis A. Mamakos (<louie@ni.umd.edu>) MD5-based authentication

- Lars H. Mathiesen (<lars@duk.edu>) adaptation of foundation code for Version 3 as specified in RFC-1305

- Danny Mayer (<mayer@ntp.org>) Network I/O, Windows Port, Code Maintenance

- David L. Mills (<mills@udu.edu>) Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36

- Wolfgang Moeller (<moeller@gwdg.de>) VMS port

- Jeffrey Mogul (<mogul@pa.dec.com>) ntptrace utility

- Tom Moore (<tmoore@fievel.daytonoh.nrc.com>) i386 svr4 port

- Kamal A Mostafa (<kamal@whence.com>) SCO OpenServer port

- Damon Hart-Davis (<d@hd.org>) and ARCRON MSF clock driver

- Rob Neal (<neal@ntp.org>) Bancomm refclock and config/parse code maintenance

- Rainer Pruy (<rainer.prueff@cenet.uni-erlangen.de>) monitoring/trap scripts, statistics file handling

- Dirce Richards (<dirce@zk3.dec.com>) Digital UNIX V4.0 port

- Wilfredo Sánchez (<wsanchez@apple.com>) added support for NetInfo

- Nick Sayer (<mrapple@quack.kfu.com>) SunOS streams modules

- Jack Sasportas (<jack@innovativeinternet.com>) Saved a lot of space on the stuff in the html/pic/ subdirectory

- Ray Schnitzler (<schnitz@unipress.com>) Unixware1 port

- Michael Shields (<shields@tembel.org>) USNO clock drivers

- Jeff Steinman (<jss@pebbles.jpl.nasa.gov>) Datum PTS clock driver

- Harlan Stenn (<harlan@pfcs.com>) GNU automake/autoconfigure
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    jpg "Clone me," says Dolly sheepishly.

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2. [2]Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
3. [3]Bernd Altmeier <altmeier@atsoft.de> hopf Elektronik serial line and PCI-bus devices
5. [6]Michael Barone <michael.barone@lmco.com> GPSVME fixes
6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
10. Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
11. Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
12. Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
13. Steve Clift <clift@ml.csiro.au> OMEGA clock driver
14. Casey Crellin <casey@esc.co.za> vxWorks (Tornado) port and help with target configuration
15. Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
16. John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port
17. Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
18. Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
19. John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
20. Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite
21. Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver
22. Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
23. Mike Iglesias <iglesias@uci.edu> DEC Alpha port
24. Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
25. Jeff Johnson <sbj@chatham.usdesign.com> massive prototyping overhaul
26. Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or <H.Lambermont@chello.nl> ntpsweep
27. Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
28. Frank Kardel <kardel (at) ntp (dot) org> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
29. Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to comply with NTPv4 specification, ntpq saveconfig
30. William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
31. Dave Katz <dkatz@cisco.com> RS/6000 AIX port
32. Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
33. George Lindholm <lindholm@u.cs.ubc.ca> SunOS 5.1 port
34. Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
35. Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
36. Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance
37. David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19,
22, 36
38. [41] Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
39. [42] Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
40. [43] Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port
41. [44] Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
42. [45] Derek Mulcahy <derek@toybox.demon.co.uk> and [46] Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
43. [47] Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
44. [48] Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
45. [49] Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
46. [50] Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
47. [51] Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52] Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
49. [53] Ray Schnitzler <schnittz@unipress.com> Unixware1 port
50. [54] Michael Shields <shields@tembel.org> USNO clock driver
51. [55] Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56] Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfig makeover, various other bits (see the ChangeLog)
53. [57] Kenneth Stone <ken@sdd.hp.com> HP-UX port
54. [58] Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support
55. [59] Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver
56. [60] Brian Utterback <brian.utterback@oracle.com> General codebase, Solaris issues
57. [61] Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
58. [62] Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
59. [63] Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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long-opts;
config-header = config.h;
environrc;
no-misuse-usage;
version-proc = ntpOptionPrintVersion;

version = `eval VERSION=`\ sed -e 's/.*\[\]/\ / -e 's/\]/\ /' < ../sntp/m4/version.m4`
[ -z "\$\{VERSION\}" ] && echo "Cannot determine VERSION" && kill -TERM \$AG_pid
echo \$VERSION`;

version-value = "`/ Don't use -v as a shortcut for --version */

/*
 * HMS: man pages already have this, and texi pages can use the
 * values in snntp/include/version.texi .
 * /
 // doc-sub = {
 //   sub-name = version;
 //   sub-text = \$\{\#VERSION\}/<<version>>/g';
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 888  8  888  .d88'  Y888..8P
 888  8  888oo088P'  `8888'
 888  8  888  .8PY888.
  `8.  `8  888  d8' `888b
  `YboDP' o888o  o888o o88888o
```
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version 1.2.5, July 18th, 2005

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 */

import org.somewhere.ws.EchoRequest;
import org.somewhere.ws.EchoResponse;

public class CopyingResponse extends EchoResponse {

    public CopyingResponse() {}

    public CopyingResponse(EchoRequest request) {
        content = request.getContent();
    }
}
import java.rmi.Remote;
public interface Legal extends Remote {};

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 */

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import java.util.Calendar;
import java.util.GregorianCalendar;
import java.util.Locale;
import java.util.TimeZone;

class CopyrightHeaders {
    private static final String ORACLE2012 =
        "/*\n" +
        " * Copyright (c) %d, Oracle and/or its affiliates. All rights reserved.\n" +
private static final String ORACLE_AFTER2012 =
"/*
 * Copyright (c) 2012, %d, Oracle and/or its affiliates. All rights reserved.
 */
private static final String UNICODE =
"/*
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 * Copyright (C) 1991-2012 Unicode, Inc. All rights reserved. Distributed under
 * the Terms of Use in http://www.unicode.org/copyright.html.
 */
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 */
"

private static String OPENJDK_AFTER2012 =
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 * accompanied this code).
 */
"
static String getOracleCopyright() {
    int year = getYear();
    return String.format(year > 2012 ? ORACLE_AFTER2012 : ORACLE2012, year);
}

static String getUnicodeCopyright() {
    return UNICODE;
}

static String getOpenJDKCopyright() {
    int year = getYear();
    return String.format(year > 2012 ? OPENJDK_AFTER2012 : OPENJDK2012, year);
}

private static int getYear() {
    return new GregorianCalendar(TimeZone.getTimeZone("America/Los_Angeles"),
    Locale.US).get(Calendar.YEAR);
}

// no instantiation
private CopyrightHeaders() {
}

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package java.security;

/**
 * Abstract class for representing access to a system resource.
 * All permissions have a name (whose interpretation depends on the subclass),
 * as well as abstract functions for defining the semantics of the
 * particular Permission subclass.
 *
 * Most Permission objects also include an "actions" list that tells the actions
 * that are permitted for the object. For example,
 * for a [code java.io.FilePermission] object, the permission name is
 * the pathname of a file (or directory), and the actions list
 * (such as "read, write") specifies which actions are granted for the
 * specified file (or for files in the specified directory).
 * The actions list is optional for Permission objects, such as
 * [code java.lang.RuntimePermission],
 * that don't need such a list; you either have the named permission (such
 * as "system.exit") or you don't.
 *
 * An important method that must be implemented by each subclass is
 * the [code implies] method to compare Permissions. Basically,
 * "permission p1 implies permission p2" means that
 * if one is granted permission p1, one is naturally granted permission p2.
 * Thus, this is not an equality test, but rather more of a
 * subset test.
 *
 * Permission objects are similar to String objects in that they
 * are immutable once they have been created. Subclasses should not
 * provide methods that can change the state of a permission
 * once it has been created.
 *
 * @see Permissions
 * @see PermissionCollection
 *
 * @author Marianne Mueller
 * @author Roland Schemers
 */

public abstract class Permission implements Guard, java.io.Serializable {

    private static final long serialVersionUID = -5636570222231596674L;

    ...
private String name;

/**
 * Constructs a permission with the specified name.
 * @param name name of the Permission object being created.
 */
public Permission(String name) {
    this.name = name;
}

/**
 * Implements the guard interface for a permission. The
 * SecurityManager.checkPermission method is called,
 * passing this permission object as the permission to check.
 * Returns silently if access is granted. Otherwise, throws
 * a SecurityException.
 * @param object the object being guarded (currently ignored).
 * @throws SecurityException if a security manager exists and its
 * checkPermission method doesn't allow access.
 * @see Guard
 * @see GuardedObject
 * @see SecurityManager#checkPermission
 */
public void checkGuard(Object object) throws SecurityException {
    SecurityManager sm = System.getSecurityManager();
    if (sm != null) sm.checkPermission(this);
}

/**
 * Checks if the specified permission's actions are "implied by"
 * this object's actions.
 * <P>
 * This must be implemented by subclasses of Permission, as they are the
 * only ones that can impose semantics on a Permission object.
 * <p>The implies method is used by the AccessController to determine
 * whether or not a requested permission is implied by another permission that
 * is known to be valid in the current execution context.
 * */
public abstract boolean implies(Permission permission);

/**
 * Checks two Permission objects for equality.
 *<p>
 * Do not use the {@code equals} method for making access control
 * decisions; use the {@code implies} method.
 *
 * @param obj the object we are testing for equality with this object.
 *
 * @return true if both Permission objects are equivalent.
 */

public abstract boolean equals(Object obj);

/**
 * Returns the hash code value for this Permission object.
 *
 * The required {@code hashCode} behavior for Permission Objects is
 * the following:
 *
 * Whenever it is invoked on the same Permission object more than
 * once during an execution of a Java application, the
 *{@code hashCode} method
 * must consistently return the same integer. This integer need not
 * remain consistent from one execution of an application to another
 * execution of the same application.
 *
 * If two Permission objects are equal according to the
 *{@code equals} method, then calling the {@code hashCode} method on each of the
 *two Permission objects must produce the same integer result.
 */

public abstract int hashCode();

/**
 * Returns the name of this Permission.
 * For example, in the case of a {@code java.io.FilePermission},
 * the name will be a pathname.
public final String getName() {
    return name;
}

/**
 * Returns the actions as a String. This is abstract
 * so subclasses can defer creating a String representation until
 * one is needed. Subclasses should always return actions in what they
 * consider to be their
 * canonical form. For example, two FilePermission objects created via
 * the following:
 *
 * <pre>
 *   perm1 = new FilePermission(p1,"read,write");
 *   perm2 = new FilePermission(p2,"write,read");
 * </pre>
 *
 * both return
 * "read,write" when the { @code getActions} method is invoked.
 *
 * @return the actions of this Permission.
 *
 */

public abstract String getActions();

/**
 * Returns an empty PermissionCollection for a given Permission object, or null if
 * one is not defined. Subclasses of class Permission should
 * override this if they need to store their permissions in a particular
 * PermissionCollection object in order to provide the correct semantics
 * when the { @code PermissionCollection.implies} method is called.
 * If null is returned,
 * then the caller of this method is free to store permissions of this
 * type in any PermissionCollection they choose (one that uses aHashtable,
 * one that uses a Vector, etc).
 *
 * @return a new PermissionCollection object for this type of Permission, or
 * null if one is not defined.
 *
 */

public PermissionCollection newPermissionCollection() {
    return null;
}
public String toString() {
    String actions = getActions();
    if ((actions == null) || (actions.length() == 0)) { // OPTIONAL
        return "(" + getClass().getName() + " " + name + ")";
    } else {
        return "(" + getClass().getName() + " " + name + " " + actions + ")";
    }
}

package java.security.acl;

/*
 * Returns a string describing this Permission. The convention is to
 * specify the class name, the permission name, and the actions in
 * the following format: ('ClassName' 'name' 'actions'), or
 * ('ClassName' 'name') if actions list is null or empty.
 *
 * @return information about this Permission.
 */

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 * questions.
 */
/**
 * This interface represents a permission, such as that used to grant
 * a particular type of access to a resource.
 *
 * @author Satish Dharmaraj
 */

public interface Permission {

    /**
     * Returns true if the object passed matches the permission represented
     * in this interface.
     *
     * @param another the Permission object to compare with.
     *
     * @return true if the Permission objects are equal, false otherwise
     */
    public boolean equals(Object another);

    /**
     * Prints a string representation of this permission.
     *
     * @return the string representation of the permission.
     */
    public String toString();
}

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# Uses Fedora Core 6 fonts and file paths.
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dialog.plain.japanese-x0208=Sazanami Gothic
dialog.plain.korean=Baekmuk Gulim
dialog.plain.chinese-big5=AR PL ShanHeiSun Uni
dialog.plain.chinese-gb18030=AR PL ShanHeiSun Uni

dialog.bold.latin-1=DejaVu LGC Sans Bold
dialog.bold.japanese-x0208=Sazanami Gothic
dialog.bold.korean=Baekmuk Gulim
dialog.bold.chinese-big5=AR PL ShanHeiSun Uni
dialog.bold.chinese-gb18030=AR PL ShanHeiSun Uni

dialog.italic.latin-1=DejaVu LGC Sans Oblique
dialog.italic.japanese-x0208=Sazanami Gothic
dialog.italic.korean=Baekmuk Gulim
dialog.italic.chinese-big5=AR PL ShanHeiSun Uni
dialog.italic.chinese-gb18030=AR PL ShanHeiSun Uni

dialog.bolditalic.latin-1=DejaVu LGC Sans Bold Oblique
dialog.bolditalic.japanese-x0208=Sazanami Gothic
dialog.bolditalic.korean=Baekmuk Gulim
dialog.bolditalic.chinese-big5=AR PL ShanHeiSun Uni
dialog.bolditalic.chinese-gb18030=AR PL ShanHeiSun Uni

sansserif.plain.latin-1=DejaVu LGC Sans
sansserif.plain.japanese-x0208=Sazanami Gothic
sansserif.plain.korean=Baekmuk Gulim
sansserif.plain.chinese-big5=AR PL ShanHeiSun Uni
sansserif.plain.chinese-gb18030=AR PL ShanHeiSun Uni

sansserif.bold.latin-1=DejaVu LGC Sans Bold
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sansserif.bold.korean=Baekmuk Gulim
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sansserif.bold.chinese-gb18030=AR PL ShanHeiSun Uni
# Search Sequences

sequence.allfonts=latin-1
sequence.allfonts.Big5=chinese-big5,latin-1
sequence.allfonts.x-euc-jp-bsd=japanese-x0208,latin-1
sequence.allfonts.EUC-KR=korean,latin-1
sequence.allfonts.GB18030=chinese-gb18030,latin-1
sequence.fallback=chinese-big5,chinese-gb18030,japanese-x0208,korean
1.275 openssh-client 1:7.4p1-10+deb9u3

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* @version 3.0 (December 2000)
*
* Optimised ANSI C code for the Rijndael cipher (now AES)
* 
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif

#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif

/*
$OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $ */

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 */

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#ifndef COMPAT_POLL_H_  
#define COMPAT_POLL_H_  
#endif

typedef struct pollfd {
  int fd;
  short events;
  shortrevents;
} pollfd_t;

typedef unsigned int nfds_t;
#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020

#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

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 *
 */

#ifndef _BSD_WAITPID_H
#endif

#define _BSD_WAITPID_H
#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED
#undef WIFSIGNALED
/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w)((int*)(w))/* convert union wait to int */
#define WIFEXITED(w)!((_W_INT(w)) & 0377)
#define WIFSTOPPED(w)((_W_INT(w)) & 0100)
#define WIFSIGNALED(w)(WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w)((_W_INT(w) >> 8) & 0377)
#define WTERMSIG(w)(int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w)((_W_INT(w)) & WCOREFLAG)
/* Prototype */
pid_t waitpid(int, int *, int);
#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

1.276 openssh-server 1:7.4p1-10+deb9u3

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 */
#endif /* HAVE_SETRESGID */
int setresgid(gid_t, gid_t, gid_t);
#endif
#endif /* HAVE_SETRESUID */
int setresuid(uid_t, uid_t, uid_t);
#endif
/*OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $ */

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 */

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#define_COMPAT_POLL_H_
#endif

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

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 *
 */

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) ((_W_INT(w)) & 0377)
#define WIFSTOPPED(w)(_W_INT(w) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) (_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* !_HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

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- MD5 is now external, in the OpenSSL library
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   *
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#ifndef HAVE_SETRESGID
int	setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int	setresuid(uid_t, uid_t, uid_t);
#endif
#endif

/*$OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp */

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/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef_COMPAT_POLL_H_
#define_COMPAT_POLL_H_

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned intnfds_t;

#define POLLIN0x0001
#define POLLOUT0x0004
#define POLLERR0x0008
#define POLLHUP0x0010
#define POLLNVAL0x0020
#endif


/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

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*
*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H
#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED
#endif
#endif

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED
#endif
/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!(_W_INT(w)) & 0377)
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

#if !HAVE_WAITPID
#endif /* _BSD_WAITPID_H */

1.278 openssl 1.1.0f-3+deb9u2

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Version 2, June 1991

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1.281 pax-utils 1.1.7-1

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The End
---
abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>'
  - 'Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>.'
buildRequires:
   File::Temp: 0.15
   Test::Harness: 3.16
   Test::More: 0.49
generatedBy: 'Module::Build version 0.3608'
license: gpl
metaSpec:
   url: http://module-build.sourceforge.net/META-spec-v1.4.html
   version: 1.4
name: Module-Build
resources:
   MailingList: mailto:module-build@perl.org
   license: http://dev.perl.org/licenses/
   repository: http://github.com/dagolden/module-build/
   version: 3

---------------------------------------------------------------

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

#!perl
=cut

use TestInit;
use strict;
use Config;
BEGIN { require 'test.pl' }

if ( $Config{usecrosscompile} ) {
  skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so # that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')

my $current_year = (gmtime)[5] + 1900;
is $v_year, $current_year, 'perl -v copyright includes current year';
is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
is $readme_year, $v_year, 'README and perl -v copyright dates match';
}
done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
open my $readme, '<', '../README' or die "Opening README failed: $!";

# The copyright message is the first paragraph:
local $/ = ";
my $copyright_msg = <$readme>

my ($year) = $copyright_msg =~ /.*(\d{4,})/s
  or die "Year not found in README copyright message '$copyright_msg'";

$year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
my $output = runperl switches => ['-v'];
my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
  or die "Copyright statement not found in perl -v output '$output'";

$year;
}

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Upstream-Name: perl
Source: http://www.perl.com/CPAN/src/5.0/
Comment:
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Upstream Authors:
Larry Wall et. al. (see /usr/share/doc/perl/AUTHORS).

Last checked against: Perl 5.24.1

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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1.283 perl-base 5.24.1-3+deb9u4

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abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the
Module-Build mailing list at <module-build@perl.org>.'

build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49

generated_by: 'Module::Build version 0.3608'
license: gpl

meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build

resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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<one line to give the program's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1989
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The End
---
abstract: 'Build and install Perl modules'
author:
   - 'Ken Williams <kwilliams@cpan.org>'
   - "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>.'
build_requires:
   File::Temp: 0.15
   Test::Harness: 3.16
   Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
   url: http://module-build.sourceforge.net/META-spec-v1.4.html
   version: 1.4
name: Module-Build
resources:
   MailingList: mailto:module-build@perl.org
   license: http://dev.perl.org/licenses/
   repository: http://github.com/dagolden/module-build/
   version: 3
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

#!perl

=head1 NAME

copyright.t
=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the
C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match
reality.

Optionally you can pass the C<--now> option to check they are at the current
year. This isn't checked by default, so that it doesn't fail for people
working on older releases. It should be run before making a new release.

=cut

use TestInit;
use strict;
use Config;
BEGIN { require 'test.pl' }  
if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}  
my ($opt) = @ARGV;
my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')  
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}  

# Otherwise simply check that the two copyright dates match each other:
else  
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}  

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = "
    my $copyright_msg = <$readme>
    my ($year) = $copyright_msg =~ /.*\b(\d{4,})/s
        or die "Year not found in README copyright message '$copyright_msg'");
    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987.*(\d{4,})/i
        or die "Copyright statement not found in perl -v output '$output'");
    $year;
}

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1.284 perl-modules-5.24 5.24.1-3+deb9u4

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Source: http://www.perl.com/CPAN/src/5.0/
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bzip2/libbzip2 version 1.0.5 of 10 December 2007

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   etc.
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#perl

=head1 NAME
copyright.t
DESCRIPTION

Tests that the latest copyright years in the top-level README file and the `perl -v` output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the `--now` option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use TestInit;
use strict;
use Config;
BEGIN { require 'test.pl' }

if ( $Config{usecrosscompile} ) {
  skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
  my $current_year = (gmtime)[5] + 1900;
  is $v_year, $current_year, 'perl -v copyright includes current year';
  is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
  is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
  open my $readme, '<', '../README' or die "Opening README failed: $!";

  # The copyright message is the first paragraph:
  local $/ = "";
  my $copyright_msg = <$readme>;

  my ($year) = $copyright_msg =~ /.*(\d{4,})/s
      or die "Year not found in README copyright message '$copyright_msg'";

  $year;
}

sub v_year
  # returns the latest copyright year shown in perl -v
{
  my $output = runperl switches => ['-v'];
  my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
      or die "Copyright statement not found in perl -v output '$output'";

  $year;
}

---
abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>'
  - "Development questions, bug reports, and patches should be sent to the Module-Build mailing list at <module-build@perl.org>.'
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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The hypothetical commands `show w' and `show c' should show the
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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The End
---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the
Module-Build mailing list at <module-build@perl.org>.
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
license: http://dev.perl.org/licenses/
repository: http://github.com/dagolden/module-build/
version: 3

--------------------------------------------------------------------------

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Julian Seward, jsward@bzip.org
#!/perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the
C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match
reality.

Optionally you can pass the C<--now> option to check they are at the current
year. This isn't checked by default, so that it doesn't fail for people
working on older releases. It should be run before making a new release.

=cut

use TestInit;
use strict;
use Config;
BEGIN { require 'test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now') {
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{

    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = ";
    my $copyright_msg = <$readme>;

    my ($year) = $copyright_msg =~ /.*(\d{4,})/s
        or die "Year not found in README copyright message '$copyright_msg'";

$year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{

    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright \d{4,}/
        or die "Copyright statement not found in perl -v output '$output'";

$year;
}

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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Mersenne Twister
----------------

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   A C-program for MT19937, with initialization improved 2002/1/26.
   Coded by Takuji Nishimura and Makoto Matsumoto.
Before using, initialize the state by using `init_genrand(seed)`
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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets
--------

The `socket` module uses the functions, `getaddrinfo`, and
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--------------------------

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UUencode and UUdecode functions
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

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-------------------------------

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--------

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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
  Samuel Neves (supercop/crypto_auth/siphash24/little)
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  Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa
-------------

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-------

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1.294 python-cryptography 1.7.1-3

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1.295 python-enum34 1.1.6-1

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1.296 python-idna 2.2-1

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1.297 python-ipaddress 1.0.17-1
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1.299 python-minimal 2.7.13-2

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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dh_python2, pycompile, pyclean and debpython module:

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1.304 python-pkg-resources 33.1.1-1

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1.307 python-six 1.10.0-3

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1.308 python-wheel 0.29.0-2

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1.309 python2-pip 8.1.2 :5.el7
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1.310 python2.7 2.7.13-2+deb9u2

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
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==============

A. HISTORY OF THE SOFTWARE
============================

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Mersenne Twister

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The `random' module includes code based on a download from `http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html'. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp

Sockets
------

The `socket' module uses the functions, `getaddrinfo', and
`getnameinfo', which are coded in separate source files from the WIDE

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UUencode and UUdecode functions
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with python standard

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--------------------------

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us/) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Mersenne Twister
----------------

The `mod:` `random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are
the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26. 
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed) 
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-------

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MD5 message digest algorithm

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L. Peter Deutsch
Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

http://www.ietf.org/rfc/rfc1321.txt

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
-----------------------------

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Modified by Jack Jansen, CWI, July 1995:
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Mersenne Twister

-------------

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    A C-program for MT19937, with initialization improved 2002/1/26.
    Coded by Takuji Nishimura and Makoto Matsumoto.

    Before using, initialize the state by using init_genrand(seed)
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Sockets
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MD5 message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at
   http://www.ietf.org/rfc/rfc1321.txt
The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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Mersenne Twister

----------------
The `_random` module includes code based on a download from `http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html`. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp

Sockets
-------

The `socket' module uses the functions, `getaddrinfo', and
`getnameinfo', which are coded in separate source files from the WIDE

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Floating point exception control
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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion 
  between ascii and binary. This results in a 1000-fold speedup. The C
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- Arguments more compliant with python standard

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--------------------------

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-------

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
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All Python releases are Open Source (see http://www.opensource.org for
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Go support for Protocol Buffers - Google's data interchange format

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1.317 sed 4.4-1

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1.323 sysv-rc 2.88dsf-59.9

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Send patches to sysvinit-devel@nongnu.org

The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>, public domain.

This package contains the scripts that are executed at start and shutdown of Debian systems.

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This is the Debian GNU/Linux prepackaged version of System V Init.

Init was written by Miquel van Smoorenburg <miquels@cistron.nl>.

This package was first put together by Bruce Perens <Bruce@Pixar.com>
from pre-distribution sources. Ian Murdock <imurdock@debian.org>
integrated it into the base system maintained it until the end of 1995.
Miquel van Smoorenburg <miquels@cistron.nl> implemented Debian support.
In version 2.85 the package was split into three (sysvinit, sysv-rc,
and initscripts) in order to make room for alternative rc mechanisms.

The upstream source is available at:

Primary-Site: ftp.cistron.nl /pub/people/miquels/software
   92K sysvinit-2.86.tar.gz
Alternate-Site: sunsite.unc.edu /pub/Linux/system/daemons/init
   92K sysvinit-2.86.tar.gz

Send patches to sysvinit-devel@nongnu.org.

The sysvinit package in Debian is maintained as an alioth project.
The project page is http://alioth.debian.org/projects/pkg-sysvinit/.

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The of the start-stop-daemon:

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>, public domain.

This package contains the mechanism for executing the right scripts in the right order at bootup/shutdown time, and when changing runlevels. It works through managing symlinks in /etc/rc?.d

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1.324 sysvinit-utils 2.88dsf-59.9

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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
*
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
  * public domain.
This package contains the mechanism for executing the right scripts
in the right order at bootup/shutdown time, and when changing runlevels.
It works through managing symlinks in /etc/rc?.d

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This is the Debian GNU/Linux prepackaged version of System V Init.

Init was written by Miquel van Smoorenburg <miquels@cistron.nl>.

This package was first put together by Bruce Perens <Bruce@Pixar.com>
from pre-distribution sources. Ian Murdock <imurdock@debian.org>
integrated it into the base system maintained it until the end of 1995.
Miquel van Smoorenburg <miquels@cistron.nl> implemented Debian support.
In version 2.85 the package was split into three (sysvinit, sysv-rc,
and initscripts) in order to make room for alternative rc mechanisms.

The upstream source is available at:

Primary-Site:   ftp.cistron.nl /pub/people/miquels/software
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92K sysvinit-2.86.tar.gz
Alternate-Site: sunsite.unc.edu/pub/Linux/system/daemons/init
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The of the start-stop-daemon:

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
*
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
  * public domain.
This package contains the scripts that are executed at start and shutdown of Debian systems.

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.328 unzip 6.0-21

1.328.1 Available under license:
This is the Debian prepackaged version of "unzip", Info-Zip's fast, portable, zipfile decompression utility.

This package is currently maintained by Santiago Vila <sanvila@debian.org> and built from sources obtained from:

The changes were fairly minimal, and consisted solely of adding various debian/* files to the distribution, plus several miscellaneous fixes as reflected in the Debian changelog.

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This is the Info-ZIP file COPYING (for UnZip), last updated 17 Jul 2000.

FIRST NOTE:
This file contains some details about the copyright history of contributions to the UnZip project. Additionally, it summarises some exceptions to the general BSD-like copyright found in LICENSE that covers our generic code and most of the system specific ports.
Please read LICENSE first to find out what is allowed to do with Info-ZIP's UnZip code.

There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware):
Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port). These copyrights are discussed in more detail below.

All remaining code is now (starting with UnZip version 5.41) covered by the new Info-ZIP license. For details, please read the accompanying file LICENSE. The terms and conditions in this license supersede the copyright conditions of the contributions by Igor Mandrichenko (vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c), Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket UnZip GUI "wince/*"), and Mark Adler (inflate/explode decompresseion core routines, previously put into the public domain). All these Info-ZIP contributors (or "primary" authors) have permitted us to replace their copyright notes by the Info-ZIP License.

Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding _in an apparatus that performs LZW encoding_, but the patent appears to exempt a stand-alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of uninplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.
The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program.
For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

The following copyright applies to the Mac OS File Manager interface code (macos/source/macstuff.[ch]), distributed with UnZip 5.4 and later:

* MoreFiles
* 
* A collection of File Manager and related routines
* 
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* with significant code contributions by Nitin Ganatra
* (Apple Macintosh Developer Technical Support Emeritus)
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* MacBinaryIII.h
* 
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* 
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Regarding the first stipulation, Mr. Smith was tracked down in southern California some years back [Samuel H. Smith, The Tool Shop; as of mid-May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS), 71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

Note that the third and fourth stipulations still apply to any company that wishes to incorporate the unreduce code into its products; if you wish to do so, you must contact Mr. Smith directly regarding licensing.

-----

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-----

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-----

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-----

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-----

The remaining code was written by many people associated with the  
Info-ZIP group, with large contributions from (but not limited to):  
Greg Roelofs (overall program logic, ZipInfo, unshrink, filename  
mapping/portability, etc.), Mark Adler (inflate, explode, funzip),  
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBUTIONS in the source distribution for a much more complete list of contributors.

The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

-------------------------------------------------------------------------------

1.329 userspace-rcu 0.10.0 :3.el7

1.329.1 Available under license:

Mathieu Desnoyers
May 13th, 2009

IBM Corporation allowed LGPLv2.1+ licensing of their contribution to the userspace RCU library in a patch submitted on May 8, 2009 from Paul E. McKenney and reviewed by Steven L. Bennett:


I (Mathieu Desnoyers) re-implemented ACCESS_ONCE(), likely(), unlikely() and barrier() from scratch without reference to the original code.

commit id : 2dc5fa0f7e2bfb0a64a7a67b39626650e863f16a

Bert Wesarg <bert.wesarg@googlemail.com> approved LGPL relicensing of his patch in an email dated May 13, 2009:

http://lkml.org/lkml/2009/5/13/16

xchg() primitives has been rewritten from a MIT-licensed cmpxchg for Intel and powerpc. They are MIT-licensed and therefore usable in LGPL code. This cmpxchg code was obtained from the atomic_ops project:

http://www.hpl.hp.com/research/linux/atomic_ops/

I (Mathieu Desnoyers) wrote the remainder of the code.

The license for the library files in this project was therefore changed to LGPLv2.1 on May 13, 2009, as detailed in LICENSE.

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Version 2.1, February 1999

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1.332 uuid-runtime 2.29.2-1+deb9u1

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mgo - MongoDB driver for Go

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package github

import (
    "context"
    "fmt"
)

// LicensesService handles communication with the license related methods of the GitHub API.
// GitHub API docs: https://developer.github.com/v3/licenses/
type LicensesService service

// RepositoryLicense represents the license for a repository.
type RepositoryLicense struct {
    Name   *string `json:"name,omitempty"
    Path   *string `json:"path,omitempty"
    SHA    *string `json:"sha,omitempty"
    Size   *int    `json:"size,omitempty"
    URL    *string `json:"url,omitempty"
    HTMLURL *string `json:"html_url,omitempty"
    GitURL  *string `json:"git_url,omitempty"
    DownloadURL *string `json:"download_url,omitempty"
    Type    *string `json:"type,omitempty"
    Content *string `json:"content,omitempty"
    Encoding *string `json:"encoding,omitempty"
    License *License `json:"license,omitempty"
}

func (l RepositoryLicense) String() string {
    return Stringify(l)
}

// License represents an open source license.
type License struct {
    Key    *string `json:"key,omitempty"
    Name   *string `json:"name,omitempty"
    URL    *string `json:"url,omitempty"
    SPDXID *string `json:"spdx_id,omitempty"
    HTMLURL *string `json:"html_url,omitempty"
    Featured *bool `json:"featured,omitempty"
    Description *string `json:"description,omitempty"
    Implementation *string `json:"implementation,omitempty"
    Permissions *[]string `json:"permissions,omitempty"
    Conditions *[]string `json:"conditions,omitempty"
    Limitations *[]string `json:"limitations,omitempty"
    Body    *string `json:"body,omitempty"
}

func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List(ctx context.Context) ([]*License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }
    //
var licenses []*License
resp, err := s.client.Do(ctx, req, &licenses)
if err != nil {
    return nil, resp, err
}
return licenses, resp, nil

// Get extended metadata for one license.
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)
    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }
    license := new(License)
    resp, err := s.client.Do(ctx, req, license)
    if err != nil {
        return nil, resp, err
    }
    return license, resp, nil
}

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Protocol Buffers for Go with Gadgets

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http://github.com/gogo/protobuf

Go support for Protocol Buffers - Google's data interchange format

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mgo - MongoDB driver for Go

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google

import (      
    "context"  
    "fmt"     
)

// LicensesService handles communication with the license related
// methods of the GitHub API.
// GitHub API docs: https://developer.github.com/v3/licenses/
type LicensesService service

// RepositoryLicense represents the license for a repository.
type RepositoryLicense struct {  
    Name *string `json:"name,omitempty"`  
    Path *string `json:"path,omitempty"`  
    SHA *string `json:"sha,omitempty"`  
    Size *int `json:"size,omitempty"`  
    URL *string `json:"url,omitempty"`  
    HTMLURL *string `json:"html_url,omitempty"`  
    GitURL *string `json:"git_url,omitempty"`  
    DownloadURL *string `json:"download_url,omitempty"`  
    Type *string `json:"type,omitempty"`  
    Content *string `json:"content,omitempty"`  
    Encoding *string `json:"encoding,omitempty"`  
    License *License `json:"license,omitempty"`  
}

func (l RepositoryLicense) String() string {  
    return Stringify(l)
// License represents an open source license.
type License struct {
    Key  *string `json:"key,omitempty"`
    Name *string `json:"name,omitempty"`
    URL  *string `json:"url,omitempty"`
    SPDXID *string `json:"spdx_id,omitempty"`
    HTMLURL *string `json:"html_url,omitempty"`
    Featured *bool `json:"featured,omitempty"`
    Description *string `json:"description,omitempty"`
    Implementation *string `json:"implementation,omitempty"`
    Permissions *[]string `json:"permissions,omitempty"`
    Conditions *[]string `json:"conditions,omitempty"`
    Limitations *[]string `json:"limitations,omitempty"`
    Body *string `json:"body,omitempty"`
}

func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List(ctx context.Context) (*[]*License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }
    req.Header.Set("Accept", mediaTypeLicensesPreview)
    var licenses []*License
    resp, err := s.client.Do(ctx, req, &licenses)
    if err != nil {
        return nil, resp, err
    }

    return licenses, resp, nil
}

// Get extended metadata for one license.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
u := fmt.Sprintf("licenses/%s", licenseName)

req, err := s.client.NewRequest("GET", u, nil)
if err != nil {
    return nil, nil, err
}

// TODO: remove custom Accept header when this API fully launches
req.Header.Set("Accept", mediaTypeLicensesPreview)

license := new(License)
resp, err := s.client.Do(ctx, req, license)
if err != nil {
    return nil, resp, err
}

return license, resp, nil

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# `/sys/license`

~> **Enterprise Only** These endpoints require Vault Enterprise.

The `/sys/license` endpoint is used to view and update the license used in
Vault.

## Read License

This endpoint returns information about the currently installed license.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>GET</code></td>
<td><code>/sys/license</code></td>
<td><code>200 application/json</code></td>
</tr>
</tbody>
</table>

### Sample Request

```bash
$ curl
   --header "X-Vault-Token: ..."
   https://vault.rocks/v1/sys/license
```
### Sample Response

```json
{
  "data": {
    "expiration_time": "2017-11-14T16:34:36.546753-05:00",
    "features": [
      "UI",
      "HSM",
      "Performance Replication",
      "DR Replication"
    ],
    "license_id": "temporary",
    "start_time": "2017-11-14T16:04:36.546753-05:00"
  },
  "warnings": [
    "time left on license is 29m33s"
  ]
}
```  

## Install License

This endpoint is used to install a license into Vault.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>PUT</code></td>
<td><code>/sys/license</code></td>
<td><code>204 (empty body)</code></td>
</tr>
</tbody>
</table>

### Parameters

- `text` *(string: <required>)* - The text of the license.

*DR Secondary Specific Parameters*

- `dr_operation_token` *(string: <required>)* - DR operation token used to authorize this request.

### Sample Payload

```json
{
  "text": "01ABCDEFG...
}
```
### Sample Request

```bash
$ curl \
  --header "X-Vault-Token: ..." \
  --request PUT \
  --data @payload.json \
  https://vault.rocks/v1/sys/license
```

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BSON library for Go

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mgo - MongoDB driver for Go

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Protocol Buffers for Go with Gadgets

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Go support for Protocol Buffers - Google's data interchange format

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package github
import {
    "context"
    "fmt"
}

// LicensesService handles communication with the license related
// methods of the GitHub API.

// GitHub API docs: https://developer.github.com/v3/licenses/
type LicensesService service

// RepositoryLicense represents the license for a repository.
type RepositoryLicense struct {
    Name *string `json:"name,omitempty"
    Path *string `json:"path,omitempty"

    SHA     *string `json:"sha,omitempty"
    Size    *int    `json:"size,omitempty"
    URL     *string `json:"url,omitempty"
    HTMLURL *string `json:"html_url,omitempty"
    GitURL  *string `json:"git_url,omitempty"
    DownloadURL *string `json:"download_url,omitempty"
    Type    *string `json:"type,omitempty"
    Content *string `json:"content,omitempty"
    Encoding *string `json:"encoding,omitempty"
    License *License `json:"license,omitempty"
}

func (l RepositoryLicense) String() string {
    return Stringify(l)
}

// License represents an open source license.
type License struct {
    Key    *string `json:"key,omitempty"
    Name   *string `json:"name,omitempty"
    URL    *string `json:"url,omitempty"

    SPDXID     *string `json:"spdx_id,omitempty"
    HTMLURL    *string `json:"html_url,omitempty"
    Featured   *bool `json:"featured,omitempty"
    Description *string `json:"description,omitempty"
    Implementation *string `json:"implementation,omitempty"
    Permissions *[]string `json:"permissions,omitempty"
    Conditions *[]string `json:"conditions,omitempty"
    Limitations *[]string `json:"limitations,omitempty"
    Body       *string `json:"body,omitempty"
func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List(ctx context.Context) ([][]*License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }
    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)

    var licenses [][]*License
    resp, err := s.client.Do(ctx, req, &licenses)
    if err != nil {
        return nil, resp, err
    }

    return licenses, resp, nil
}

// Get extended metadata for one license.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)
    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }
    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)

    license := new(License)
    resp, err := s.client.Do(ctx, req, license)
    if err != nil {
        return nil, resp, err
    }

    return license, resp, nil
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Source Package: xorg
Debian/Ubuntu package authors: Branden Robinson, Fabio M. Di Nitto, Daniel Stone and others

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Comment:
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To: Jonathan Nieder <jrnieder@gmail.com>
Subject: Re: XZ utils for Debian
Date: Sun, 19 Jul 2009 13:28:23 +0300
Message-Id: <200907191328.23816.lasse.collin@tukaani.org>

[...]

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1.337 zlib1g amd64:1:1.2.8.dfsg-5

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Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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1.338 zookeeper 3.4.11

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